



Scientific and Technical Information Center

Requester's Full Name:	l:xaminer ≠ :	Date:
Art Unit: Phone Number	r 30 Senal Number:	
Mail Box and Bldg/Room Location:	Results Format Preferred (circle	: PAPER DISK E-MA
f more than one search is submitted,	please prioritize searches in order of n	leed. ********
nclude the elected species or structures, keyword	opic, and describe as specifically as possible the su s, synonyms, acronyms, and registry numbers, and y have a special meaning. Give examples or releva ertinent claims, and abstract.	combine with the concept or
Title of Invention:		
Inventors (please provide full names):		
Earliest Priority Filing Date:		
For Sequence Searches Only Please include all pe appropriate serial number.	ertinent information (parent, child, divisional, or issued	patent numbers) along with the
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ALIGNMENTS

A;Status: preliminary A;Molecule type: mRNA A;Residues: 14-49, 'Y',51-190, 'H',192-205, 'L',207-226, 'F',228-385 <bow> A;Residues: 14-49, 'Y',51-190, 'H',192-205, 'L',207-226, 'F',228-385 <bow> A;Cross-references: GB:X16070; NID:g38092; PIDN:CAA34203.1; PID:g38093 A;Silegelman, M.H.; Weissman, I.L. Proc. Natl. Acad. Sci. U.S.A. 86, 5562-5566, 1989 A;Title: Human homologue of mouse lymph node homing receptor: evolutionary conservati A;Reference number: A33912; MUID:89315837 A;Accession: A33912</bow></bow>	A;Reference number: JL0104 A;Recession: JL0104 A;Residues: 1-230,'N',232,'N',234-254,'E',256-385 <ted> A;Residues: 1-230,'N',234-254,'E',256-385 <ted></ted></ted></ted></ted></ted></ted></ted></ted></ted></ted></ted></ted></ted></ted></ted></ted></ted></ted></ted></ted></ted></ted></ted></ted></ted></ted></ted></ted></ted></ted></ted></ted></ted></ted>	A;Residues: 14-385 <ord> A;Cross-references: GB:M32414; NID:g187259; PIDN:AAB60700.1; PID:g386860 A;Cross-references: GB:M32414; NID:g187259; PIDN:AAB60700.1; PID:g386860 R;Camerini, D.; James, S.P.; Stamenkovic, I.; Seed, B. R;Title: Leu-8,TQ1 is the human equivalent of the Mel-14 lymph node homing receptor. A;Title: Leu-8,TQ1 is the human equivalent of the Mel-14 lymph node homing receptor. A;Title: S06798 A;Molecule type: mRNA A;Residues: 1-625,'S'.227-385 <cam> A;Roteit type: mRNA A;Residues: 1-225,'S'.227-385 <cam> A;Roteit type: mRNA A;Residues: 1-225,'S'.227-385 <cam> A;Cross-references: EMBL:X17519; NID:g34344; PIDN:CAB43536.1; PID:g4902829 A;Rote: this translation is not annotated in GenBank entry HSLEU8, release 111.0 R;Tedder, T.F.; Isaacs, C.M.; Ernst, T.J.; Demetri, G.D.; Adler, D.A.; Disteche, C.M. J. Exp. Med. 170, 123-133, 1989 A;Title: Isolation and chromosomal localization of cDNAs encoding a novel human lymph otteins.</cam></cam></cam></ord>	RESULT 1 A34015 L-selectin precursor, long splice form - human L-selectin precursor, long splice form - human N;Alternate names: CD62L; leucocyte cell adhesion molecule-1 (LECAM-1, LAM-1); leukoc ral lymph node homing receptor Leu-8 C;Species: Homo sapiens (man) C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 21-Jul-2000 C;Accession: I5533; S06798; JL0104; A34015; A33912 R;Ord, D.C.; Ernst, T.J.; Zhou, L.J.; Rambaldi, A.; Spertini, O.; Griffin, J.; Tedder J. Biol. Chem. 265, 7760-7767, 1990 A;Title: Structure of the gene encoding the human leukocyte adhesion molecule-1 (TQ1, A;Accession: I55333; MUID:90243637 A;Reference number: I55333; MUID:90243637 A;Accession: Tfs333 A;Status: translated from GB/EMBL/DDBJ A;Molecule type: DNA

mannose receptor p

A; Status: preliminary A; Molecule type: mRNA

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Gene 181, 219-220, 1996
A;Title: PCR cloning of the cDNA encoding
A;Reference number: JC5377; MUID:97128794
A;Accession: JC5377
A;Molecule type: mRNA
A;Residues: 1-372 <TSU1>
A;Cross-references: GB:U52074; NID:g132614
                                                                                                                                                                                                                              C:Species: Papio hamadryas (hamadryas baboon)
C;Date: 02-Jun-1997 #sequence_revision 12-Sep-1997
C:Accession: JC5377; PC4315
R;Tsurushita, N.; Fu, H; Berg, E.L.
Gene 181, 219-220, 1996
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A;Cross-references: GB:M25280; NID:g187182; PIDN:AAC63053.1;
C;Comment: For an alternative splice form coo brockness.
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F;173-204/Domain: EGF homology <EGF>
F;210-267/Domain: Complement factor H repeat homology <FH1>
F;272-329/Domain: complement factor H repeat homology <FH2>
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A;Map position: 1q22-1q23
A;Introns: 14/3; 42/1; 171/1; 207/1; 269/1;
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A;Cross-references: GB:U26535; NID:g847787; PIDN:AAA67896.1; PID:g847788 C;Comment: This protein involved in leukocyte-endothelial adhesion; it mediates adhes C;Superfamily: L-selectin; C-type lectin homology; complement factor H repeat homolog F;1-37/Domain: signal sequence #status predicted <SIG> F;29-155/Domain: C-type lectin homology <LCH> F;38-376/Product: L-selectin #status predicted <NAT> F;160-191/Domain: EGF homology <EGF> F;197-254/Domain: complement factor H repeat homology <FHR> F;29-316/Domain: complement factor H repeat homology <FHR>
                                                                                                                                                                                                                                                                                         R:Qian, J.; Huang, X.; Marks, R.M.
Biochem. Biophys. Res. Commun. 225, 406-4.
A;Title: Cloning of the cDNA for rabbit L
A;Reference number: JC4892; MUID:96354800
A;Accession: JC4892
                                                                                                                                                                                                                    A; Molecule type: mRNA
A; Residues: 1-376 <QIA>
                                                                                                                                                                                                                                                                                                                                                                                                              L-selectin precursor - rabbit
C;Species: Oryctolagus cuniculus (domestic rabbit)
C;Date: 04-Sep-1998 #sequence_revision 04-Sep-1998
C;Accession: JC4892
                                                                                                                                                                                                                                                                   A; Status: preliminary
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F;39-157/Domain: calcium-binding *status predicted <CAB>
F;160-191/Domain: EGF homology <EGF>
F;197-254/Domain: complement factor H repeat homology <FH1>
F;259-316/Domain: complement factor H repeat homology <FH2>
F;333-355/Domain: transmembrane *status predicted <TMM>
F;356-372/Domain: intracellular *status predicted <INT>
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A;Residues: 37-43;142-148 <TSU2>
C;Comment: This receptor is involved in the initial adhesive
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93.5%;
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RESULT 4
S22124
L-selectin precursor - bovine
N;Alternate names: leucocyte cell adhesion molecule 1 (LECAM-1)
C;Species: Bos primigenius taurus (cattle)
C;Accession: S22124; A46531
R;Bosworth, B.T.
submitted to the EMBL Data Library, October 1991
A;Reference number: S22123
A;Accession: S22124
A;Status: preliminary
A;Cross-references: EMBL:X62882; NID:g515; PIDN:CAA44676.1; PID:g516
R;Walcheck, B.; Whitte, M.; Kurk, S.; Kishimoto, T.K.; Jutila, M.A.
Eur. J. Immunol. 22, 469-476, 1992
A;Title: Characterization of the bovine peripheral lymph node homing receptor A;Reference number: A46531
A;Reference number: A46531
A;Residues: 39-79, 'Q', 81-151,' K' <WALL>
A;Note: sequence extracted from NCBI backbone (NCBIN:85686, NCBIP:85687)
C;Superfamily: L-selectin; C-type lectin homology; complement factor H repeat
F;29-155/Domain: Complement factor H repeat homology <FH1>
F;160-191/Domain: complement factor H repeat homology <FH2>
F;160-191/Domain: complement factor H repeat homology <FH2>
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Best Local S
Matches 311
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82; Conservative
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77.0%;
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84.1%; Pred. No. 3
                                                  42;
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Pred.
                                                 core 1682; Dred. No. 9.4e
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9.4e-118;
nes 40;
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3.3e-126;
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R; Watanabe, T.; Song, Y.; Hirayama, Y.; Tam
Blochim. Biophys. Acta 1131, 321-324, 1992
A, Title: Sequence and expression of a rat c
A; Reference number: S23936; MUID:92329548
A; Accession: S23936
A; Status: preliminary
                                                                                                                                                                                                                                                                                                                                 A; Molecule type: mRNA
A; Residues: 1-372 <WAT>
A; Residues: 1-372 <WAT>
A; Cross-references: GB:D10831; NID:g220801; PIDN:BAA01613.1; PID:g220802
C; Superfamily: L-selectin; C-type lectin homology; complement factor H re
C; Keywords: transmembrane protein
F; 29-155/Domain: C-type lectin homology <LCH>
F; 160-191/Domain: EGF homology <EGF>
F; 197-254/Domain: complement factor H repeat homology <FH1>
F; 259-316/Domain: complement factor H repeat homology <FH2>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               L-selectin precursor - rat
N;Alternate names: leucocyte cell adhesion molecule 1 (LECAM-1)
C;Species: Rattus norvegicus (Norway rat)
C;Date: 02-Dec-1993 #sequence_revision 01-Sep-1995 #text_change
C;Accession: S23936
R;Watanabe, T.; Song, Y.; Hirayama, Y.; Tamatani, T.; Kuida, K.
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                                                                                                                                                                                                                            | HIPPWKCQSTQRDLWNIFKLWGWTMLCCDFLAHHGTYCWTYHYSEKPMNWQRARRFCRDN 60
CGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKK
                                                                                               TICESSGIWSNPSPICOKLDKSFSMIKEGDYNPLFIPVAVMVTAFSGLAFIIWLARRLKK 360
                                                       NCDVGYYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEETT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKK
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                                                                                                                                                                                                            MVFPWRCQSAQRGSWSFLKLWIRTLLCCDLLPHHGTHCWTYHYSERSMNWENARKFCKHN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MLCPWKCQNAQRGLWNVFKLWVWIMLCCDFFAHHGTDCWTYHYSKRPMPWEKARAFCREN
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76.9%;
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Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Cross-references: EMBL:X17519; NID:g34344
A;Note: this translation is not annotated in GenBank entry C;Comment: For an alternative splice form, see PIR:A34015.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             R.Camerini, D.; James, S.P.; Stamenkovic, I.; Seed, B.
Nature 342, 78-82, 1989
A;Title: Leu-8/TQ1 is the human equivalent of the Mel-14 lymph node homing receptor.
A;Reference number: S06798; MUID:90044046
A;Accession: S09702
A;Status: not compared with conceptual translation
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C:Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 26-May-2000
C:Accession: S09702
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A; Residues: 1-323 <CAM>
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C; Species: Homo sapiens (man)
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Best Local
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319-323/Domain: intracellular #status predicted <INT>
73,117,190,245,259/Binding site: carbohydrate (Asn) (covalent)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                210-267/Domain: complement factor H repeat homology <FH1> 272-333/Domain: complement factor H repeat homology #status atypical <FH2>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Genetics:
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                                       NCDVGYYGPQCQFVIQCEPLEAPELGTMDCTHSLGNFSFSSQCAFSCSEGTNLTGIEETT
                                                                           NCDVGYYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEETT
                                                                                                                                                                                                         NKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNHTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MIEPWKCQSTQRDLWNIFKLWGWTMLCCDFLAHHGTYCWTYHYSEKPMNWQRARRECRDN 60
                                                                                                                                                                            NKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNYTC
                                                                                                                                                                                                                                                                                                              YTDLVAIQNKAEIEYLEKTLPFSRSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGDGEPN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   MIFPWKCQSTQRDLWNIFKLWGWTMLCCDFLAHHGTDCWTYHYSEKPMNWQRARRFCRDN 73
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98.3%;
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Pred. No. 1.4e-115
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .4e-115;
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YTDLVAIQNKAEIEYLEKTLPFSRSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGDGEPN 120 MVFPWRCEGTYWGSRNILKLWVWTLLCCDFLIHHGTHCWTYHYSEKPMNWENARKFCKQN MIFPWKCQSTQRDLWNIFKLWGWTMLCCDFLAHHGTYCWTYHYSEKPMNWQRARRFCRDN 60

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Gaps

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F;39-331/Domain: extracellular *status predicted <EXT>
F;160-191/Domain: EGF homology <EGF>
F;167-254/Domain: complement factor H repeat homology <FH1>
F;259-316/Domain: complement factor H repeat homology <FH2>
F;329-316/Domain: transmembrane *status predicted <TMM>
F;332-355/Domain: intracellular *status predicted <TMM>
F;336-372/Domain: intracellular *status predicted <TMM>
F;360-372/Domain: intracellular *status predicted <TMM>
F;360-372/Domain: intracellular *status predicted <TMM>
F;360-372/Domain: intracellular *status predicted <TMM>
F;360,104,216,246,278,308,320/Binding site: carbohydrate (Asn) (complement) (complement) *status predicted <TMM)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A; Molecule type: protein
A; Residues: 'X', 40,'X', 42,'XXX', 46,'X', 48,'XXXXXX', 55-56,'X', 58,'XXXXXX', 65,'V',
C; Comment: This protein is ubiquitinated.
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A;Title: Cell surface molecule associated with lymphocyte homing A;Reference number: A60906; MUID:86122900
A;Accession: A60906
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Title: Mouse lymph node homing receptor A;Reference number: A40167; MUID:89162048 A;Accession: A40167
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A; Residues: 1-372 <SIE2>
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A; Residues: 1-372 <SIE1>
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A; Title: The mouse lymph node homing receptor is identical wide. Reference number: A35102; MUID:90263086
A; Accession: A35102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               N;Alternate names: lymph node homing receptor MEL-14; lymphocyte surface antigen C;Species: Mus musculus (house mouse) . C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 21-Jan-2000 C;Accession: A32375; A35102; A40167; A60906 R;Lasky, L.A.; Singer, M.S.; Yednock, T.A.; Dowbenko, D.; Fennie, C.; Rodriguez, A.; Janes, M.S.; Yednock, T.A.; Dowbenko, D.; Fennie, C.; Rodriguez, C.; Nater, C.; Rodriguez, C.; Ro
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A;Title: Cloning of a lymphocyte homing receptor reveals a A;Reference number: A32375; MUID:89168433
A;Accession: A32375
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Caccession: A30359
R;Johnston, G.I.; Cook, R.G.; McEver, R.P.
Cell 56, 1033-1044, 1989
A;Title: Clonding of GMP-140, a granule membrane protein of platelets and endothelium: se A;Reference number: A30359
A;Occession: A30359
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Alternate names: CD62 antigen; granule membrane
Species: Homo sapiens (man)
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20 LWGWTMLCCDFLAHHGTYCWTYHYSEKPMNWQRARRFCRDNYTDLVAIQNKAEIEYLEKT 79

IW-FSALISELVNQKEVAAWTYNYSTKAYSWNNSRVFCRRHFTDLVAIQNKNEIAHLNDV

Query Match Best Local

Similarity

42.7%;

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Score 902.5; Pred. No. 1.6e #0; Mismatches

, DB 2; .6e-59; 103;

Length

Gaps

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A; Molecule type: mRNA
A; Residues: 1-723, 'E',725-768 <SAN>
A; Residues: 1-723, 'E',725-768 <SAN>
A; Cross-references: GB:M72332; NID:9193565; PIDN:AAA37712.1; PID:9193566
A; Note: sequence extracted from NCBI backbone (NCBIP:109900)
C; Superfamily: unassigned EGF-related proteins; complement factor H repet C; Keywords: cell adhesion; glycoprotein; phosphohistidine; phosphoproteir; p:1-41/Domain: signal sequence #status predicted <SIG>
F; 12-768/Product: P-selectin #status predicted <MAT>
                                                                                                                                 F:163-194/Domain: BGF homology <BGF>
F:200-257/Domain: complement factor H repeat
F:202-319/Domain: complement factor H repeat
F:324-381/Domain: complement factor H repeat
F:324-381/Domain: complement factor H repeat
F:386-443/Domain: complement factor H repeat
F:448-505/Domain: complement factor H repeat
F:448-505/Domain: complement factor H repeat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; Note: sequence extracted from NCBI backbone (NCBIP:109467) R; Sanders, W.E.; Wilson, R.W.; Ballantyne, C.M.; Beaudet, A. Blood 80, 795-800, 1992
A; Title: Molecular cloning and analysis of in vivo expression A; Reference number: A44899; MUID:92345617
  F;710-733/Domain: transmembrane #status F;734-768/Domain: intracellular #status F;45,54,107,212,347,398,456,467,603,654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       R; Weller, A.; Isenmann, S.; Vestweber, D.
J. Biol. Chem. 267, 15176-15183, 1992
A;Title: Cloning of the mouse endothelial
A;Reference number: A42755; MUID:92340571
A;Accession: A42755
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     N;Alternate names: CD62; granule membrane protein 140; PADGEM
C;Species: Mus musculus (house mouse)
C;Date: 04-Mar-1993 #sequence_revision 18-Nov-1994 #text_change 19-May-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Cross-references: GB:M87861; NID:g200552; PIDN:AAA40008.1; A;Experimental source: endothelial cells
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A; Residues: 1-768 <WEL>
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                                                                               F;580-637/Domain: complement factor H repeat F;642-699/Domain: complement factor H repeat
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predicted <INT>,661,679/Binding
                                                        predicted <TMN>
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F;386-443/Domain:
F;458-515/Domain:
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A; Residues: 1-646 <STR>
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A;Title: Isolation and characterization of a bovine cDNA encoding a functional homolog A;Reference number: JNO473; MUID:93249394
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C;Species: Bos primigenius taurus (cattle)
C;Date: 30-Sep-1993 #sequence_revision 30-Sep-1993 #text_change 11-Jan-2000
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588-611/Domain:
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                                                            LASGIWTNSPPQCVAVQCPALKSPEQGSMSCVQSAEAFQHQSSCSFSCEEGFALVGPEVV
                                                                                                                            GPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKKT 301
                                                                                                                                                                                        CYPGFYGPECEYVRECGEFDLPQHVHMNCSHPLGNFSFNSHCSFHCAEGYALNGPSELEC
                                                                                                                                                                                                                               KKNKEDCVETYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVETINNHTCN 181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TDLVAIQNKAEIEYLEKTLPFSRSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGDGEPNN 121
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                                                                                                                                                                                                                                                                                                                                   KRNNQDCVEIYIKSLSAPGKWNDEPCWKRKRALCYRASCQDMSCSKQGECIETIGNYTCS
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complement factor H repeat homology <FH3>
complement factor H repeat homology <FH4>
complement factor H repeat homology <FH5>
complement factor H repeat homology <FH5>
complement factor H repeat homology <FH6>
transmembrane #status predicted <TMM>
intracellular #status predicted <CYT>
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Pred. No. 5.2e
51; Mismatches
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A;Molecule type: DNA
A;Residues: 1-610 <COL>
A;Residues: 1-610 <COL>
A;Cross-references: GB:M61893; GB:M58017; NID:g182043; PIDN:AAA52375.1; FR;Hession, C.; Osborn, L.; Goff, D.; Chi-Rosso, G.; Vassalio, C.; Pasek, Proc. Natl. Acad. Sci. U.S.A. 87, 1673-1677, 1990
A;Title: Endothelial leukocyte adhesion molecule 1: direct expression clu
                                                                                                                                                                                                                                                     C;Species: Homo sapiens (man)
C;Date: 27-Jul-1990 #sequence_revision 27-Jul-1990 #text_change 21-Jul-2000
C;Accession: A38615; A35046; A32606
R;Collins, T; Williams, A; Johnston, G.I.; Kim, J.; Eddy, R.; Shows, T.; Gimbrone J J. Biol. Chem. 266, 2466-2473, 1991
A;Title: Structure and chromosomal location of the gene for endothelial-leukocyte adh A;Reference number: A38615; MUID:91115870
A;Accession: A38615
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A35046
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A;Molecule type: mRNA
A;Molecule type: mRNA
A;Residues: 1-768 <RES>
A;Cross-references: GB:L23088; NID:g349552; PIDN:AAA60325.1; PID:g349553
C;Superfamily: unassigned EGF-related proteins; C-type lectin homology; c
F;32-158/Domain: C-type lectin homology <LCH>
F;163-194/Domain: EGF homology <EGF>
F;262-319/Domain: complement factor H repeat homology <FH06>
F;510-567/Domain: complement factor H repeat homology <FH07>
F;580-637/Domain: complement factor H repeat homology <FH08>
F;642-699/Domain: complement factor H repeat homology <FH08>
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R;Auchampach, J.A.; Oliver, M.G.; Anderson, D.C.; Manning, A.M. Gene 145, 251-255, 1994
A;Title: Cloning, Sequence comparison and in vivo expression of A;Reference number: I53821; MUID:94333817
A;Accession: I53821
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Best Local Similarity
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                                                                                                                                                222 FSSQCTFSCPEGYDLNGPSEMQCLASGIWTNNPPQCKAVQCQSLEAPLHGTMDCTHPLAA
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                                                                                                   FSFTSACTFICSEGTELIGKKKTICESSGIWSNPSPICQKL 319
                                                                       FAYDSSCKFECOPGYRMRGSDILHCTDSGQWSEPLPTCEAI
                                                                                                                                                                         FSSQCAFSCSEGTNLTGIEETTCGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLAS
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| HCTALGVWTAPTPVCKAL
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-May-1998 #sequence_revision 29-May-1998 #text_change 19-May-2000
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53.4%;
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Pred. No. 3.1e-58;
2; Mismatches 89
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E-selectin precursor - human N;Alternate names: endothelial leukocyte adhesion molecule 1 (ELAM-1); LECAM-2

A; Status: preliminary

cloning and fur

PID:g182046 , M.; Pittack,

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A; Residues: 1-610 (HES)
A; Cross-references: GB:M30640; NID:g182047; PIDN:AAA52377.1; PID:g182048
R; Bevilacqua, M.P.; Stengelin, S.; Gimbrone Jr., M.A.; Seed, B.
Science 243, 1160-1165, 1989
A; Title: Endothelial leukocyte adhesion molecule 1: an inducible receptor for neutrophil A; Reference number: A32606; MUID:89162047
A; Reference number: A32606; MUID:89162047
A; Residues: 1-467, 'Y', 469-610 < BEV'>
A; Residues: 1-467, 'Y', 469-610 < BEV'>
A; Cross-references: GB:M24736; NID:g537523; PIDN:AAA52376.1; PID:g537524
C; Genetics:
A; Gene: GDB:SELE; ELAM; ESEL; ELAM1
A; Cross-references: GB:120612; OMIM:131210
A; Map position: 1422-1425
C; Superfamily: unassigned EGF-related proteins; C-type lectin homology; complement factor
E; 1-217Domain: C-type lectin homology < CLEN
F; 12-138/Domain: C-type lectin homology < CLEN
F; 12-5010/Product: endothelial leukocyte adhesion molecule 1 #status predicted <MAT>
F; 142-299/Domain: complement factor H repeat homology <FH01>
F; 242-299/Domain: complement factor H repeat homology <FH02>
F; 304-362/Domain: complement factor H repeat homology <FH03>
                               endothelial leukocyte adhesion molecule 1 - rabbit C;Species: Oryctolagus cuniculus (domestic rabbit) C;Date: 14-Feb-1997 #sequence_revision 14-Feb-1997 #text_change 1 C;Accession: I46709; I46708
R;Lariqan, J.D.; Tsang, T.C.; Rumberger, J.M.; Burns, D.K.
DNA Cell Biol. 11, 149-162, 1992
A;Title: Characterization of cDNA and genomic sequences encoding: A;Reference number: I46708; MUID:92189729
A;Accession: I46709
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
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A; Accession: A35046
A; Status: preliminary
A; Molecule type: mRNR
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Molecule type: mRNA
Residues: 1-551 <LAR1>
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Pred. No. 1.3e-56;
1; Mismatches 93;
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R; Weller, A.; Isenmann, S.; Vestweber, D.
J. Biol. Chem. 267, 15176-15183, 1992
A; Title: Cloning of the mouse endothelial sel
A; Reference number: A42755; MUID:92340571
A; Accession: B42755
A; Status: nucleic acid sequence not shown
A; Molecule type: mRNA
A; Residues: 'MKATAGY', 1-389, 391-612 <WEL>
A; Cross references: GB:M67862; NID:9193107
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A; Introns: 13/1; 143/1; 179/1; 241/1; 303/1; 366/1; 429/1; 4
A; Introns: 13/1; 143/1; 179/1; 241/1; 303/1; 366/1; 429/1; 4
C; Superfamily: unassigned EGF-related proteins; C-type lecti
C; Keywords: duplication; glycoprotein; tandem repeat
F; 14-140/Domain: C-type lectin homology <CFH>
F; 182-239/Domain: complement factor H repeat homology <FH1>
F; 244-301/Domain: complement factor H repeat homology <FH2>
F; 306-364/Domain: complement factor H repeat homology <FH2>
F; 306-427/Domain: complement factor H repeat homology <FH4>
F; 432-486/Domain: complement factor H repeat homology <FH5-
F; 432-486/Domain: comple
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Eur. J. Biochem. 206, 401-411, 1992
A;Title: Murine endothelial leukocyte-adhesion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 N;Alternate names: endothelial leukocyte adhesion molecule 1 (ELAM-1) c;Species: Mus musculus (house mouse) C;Date: 04-Mar-193  #sequence_revision 31-Dec-2000  #text_change 31-De C;Accession: S23174; B42755
                                                                                                                                                                                                                                                                                                                                                                               A; Molecule type: DNA
A; Residues: 1-612 <BEC>
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A; Status: preliminary;
A; Experimental source: endothelial
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Pred. No. 1.4e-56;
1; Mismatches 95;
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extracted

NCBI backbone

(NCBIP: 109470)

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A; Molecule type: mRNA
A; Molecule type: mRNA
A; Residues: 1-485 <NGU>
A; Cross-references: GB:L12039; NID:g402913; PIDN:AAA02991.1; PID:g402914
C; Superfamily: unassigned EGF-related proteins; C-type lectin homology; c
F;13-139/Domain: C-type lectin homology <CHN
F;181-237/Domain: complement factor H repeat homology <FH1>
F;242-299/Domain: complement factor H repeat homology <FH2>
F;304-362/Domain: complement factor H repeat homology <FH3>
F;367-421/Domain: complement factor H repeat homology <FH4>
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$36772

E-selectin - bovine
C:Species: Bos primigenius taurus (cattle)
C:Date: 10-Dec-1993 #sequence_revision 27-Feb-1997 #text_change 19-May-2000
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F;12-10-0main: signal sequence #status predicted <SIG>F;12-138/Domain: C-type lectin homology <LCH>F;22-612/Product: p-selectin #status predicted <AUT>F;143-174/Domain: EGF homology <EGF>F;143-174/Domain: complement factor H repeat homology <FH1>F;243-30/Domain: complement factor H repeat homology <FH3>F;305-363/Domain: complement factor H repeat homology <FH4>F;305-363/Domain: complement factor H repeat homology <FH5>F;431-485/Domain: complement factor H repeat homology <FH5>F;494-548/Domain: complement factor H repeat homology <FH5>F;494-548/Doma
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R;Nguyen, M.; Strubel, N.A.; Bischoff, J.
Nature 365, 267-269, 1993
A;Title: A role for slalyl Lewis-X/A glycoconjugates in capillary morphogenesis A;Reference number: S36772; MUID:93382537
A;Accession: S36772
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                                            YNSSCSISCAEGYLPSSTEATRCMSSGEWSTPLPKCNVVKCDALSNLDNGVVNCSPNHGS
                                                                                               ACNPTPCGSHGECVETINNYTCQCHPGFKGLKCEQVVTCPAQKHPEHGHLVC-NPLGKFT
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Search completed: October 13, 2001, 02:55:06 Job time: 4208 sec

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Copyright (c) 1993 - 2000
 LEM1_HUMAN
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Compugen Ltd.
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Q95237 pan troglod
Q95235 pongo pygma
Q95198 macaca mula
Q95198 macaca mula
Q28768 papio hamad
P98131 bos taurus
P30836 rattus norv
P18337 mus musculu
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drosophila

cartus norv

mus musculu

homo sapien

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drattus norv

mus musculu

rattus norv

mus musculu
 homo sapien
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	P19070										
rattus norv	mus musculu	gallus gall	bos taurus	mus musculu	mus musculu	homo sapien	mus musculu	bos taurus	rattus norv	mus musculu	homo sapien

ALIGNMENTS

RA R	R R R R R R R R R R R R R R R R R R R	RA R	R R R R R R R R R R R R R R R R R R R	RESULT LEM1_H LDM1_H AC P DT O DT O DT O DT O C C C C C C C C C C C C C C C C C C
SEQUENCE FROM N.A. SEQUENCE FROM N.A. MEDLINE-990243637; PubMed-1692315; MEDLINE-990243637; PubMed-1692315; Ord D.C., Ernst T.J., Zhou L.J., Rambaldi A., Spertini O., Griffin J., Tedder T.F.; "Structure of the gene encoding the human leukocyte adhesion molecule-1 (TQ1, Leu-8) of lymphocytes and neutrophils."; J. Biol. Chem. 265:7760-7767(1990). [6] 3D-STRUCTURE MODELING.	Nature 342:78-82(1989). [4] [5] SEQUENCE FROM N.A. MEDLINE-89308881; PubMed-2663882; Bowen B.R., Nguyen T., Lasky L.A.; "Characterization of a human homologue of the murine peripheral lymph node homing receptor."; J. Cell Biol. 109:421-427(1989).	Tedder T.F., Isaacs C.M., Ernst T.J., Demetri G.D., Adler D.A., Tedder T.F., Isaacs C.M., Ernst T.J., Demetri G.D., Adler D.A., Tisolation and chromosomal localization of cDNAs encoding a novel human lymphocyte cell surface molecule, LAM-1. Homology with the mouse lymphocyte homing receptor and other human adhesion proteins."; J. Exp. Med. 170:123-133(1989). [3] SEQUENCE FROM N.A. MEDLINE-90044046: PubMed-2509939; Camerini D., James S.P., Stamenkovic I., Seed B.; "Leu-8/TQ1 is the human equivalent of the Mel-14 lymph node homing receptor.";		1 UMAN EM1.HUMAN STANDARD; PRT; 372 AA. 14151; P15023; 1-JAN-1990 (Rel. 13, Created) 1-FEB-1991 (Rel. 17, Last sequence update) 1-OCT-2000 (Rel. 40, Last annotation update) -SELECTIN PRECURSOR (LYMPH NODE HOMING RECEPTOR) (LE OLECULE-1) (LAM-1) (LEUKOCYTE SURFACE ANTIGEN LEU-8) LEUKOCYTE-ENDOTHELIAL CELL ADHESION MOLECULE 1) (LEC ELL OR LYAM1 OR LNÜHR. omo sapiens (Human). ukaryota; Metazoa; Chordata; Craniata; Vertebrata; E

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InterPro; IPR000436; -.
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InterPro; IPR001304; -.
InterPro; IPR000396; -.
InterPro; IPR0002396; -.
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EMBL; X16150; CAA34275.1; -
EMBL; X17519; CAB43536.1; -
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EMBL; X17519; CAB43537.1; A
EMBL; X1670; CAB34203.1; -
EMBL; M32404; AAB60700.1; -
EMBL; M32407; AAB60700.1; J
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EMBL; M32409; AAB60700.1; J
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Bajorath J., Aruffo A.;
"A template for generation and comparison of three-dimensional selectin models.";
Biochem. Biophys. Res. Commun. 216:1018-1023(1995).
-I- FUNCTION: CELL SURFACE ADHESION PROTEIN. MEDIATE THE ADHER!
OF LYMPHOCYTES TO ENDOTHELIAL CELLS OF HIGH ENDOTHELIAL
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SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.
SIMILARITY: TO OTHER SELECTINS/LECAMS.
SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DOMAIN.
SIMILARITY: CONTAINS 1 EGF-LIKE DOMAIN.
SIMILARITY: CONTAINS 2 SUSHI (SCR) REPEATS.
DATABASE: NAME-PROW; NOTE-CD guide CD62L entry:
WWW-"http://www.ncbi.nlm.nih.gov/prow/cd/cd62l.htm"
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POTENTIAL.

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C-TYPE LECTIN (SHORT FOR EGF-LIKE.

2 X SUSHI (SCR) REPEATS.

SUSHI 1.

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Mammalia; F
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095237;
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01-NOV-1997 (Rel. 35, Created)
01-NOV-1997 (Rel. 35, Last sequence update)
01-NOV-1997 (Rel. 35, Last annotation update)
L-SELECTIN PRECURSOR (LYMPH NODE HOWING RECEPTOR) (LEUKOCYTE ADHESION MOLECULE-1) (LAM-1) (LEUKOCYTE-ENDOTHELIAL CELL ADHESION MOLECULE 1)
(LECAM1) (CD62L).
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                                             Mammalia; Eutheria; NCBI_TaxID=9598;
                                                                       Pan troglodytes (Chimpanzee).
Fukaryota; Metazoa; Chordata;
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InterPro; IPR001304; -.
InterPro; IPR001304; -.
InterPro; IPR001396; -.
InterPro; IPR001396; -.
InterPro; IPR000396; EGF; 1.
Pfam; PF000059; Lectin_c; 1.
Pfam; PF000084; Sushi; 2.
Pfam; PF000843; SELECTIN.
PRINTS; PR001343; SELECTIN.
PROSITE; PS001165; CGTYPE_LECTIN_1; 1.
PROSITE; PS01165; CGTYPE_LECTIN_2; 1.
Cell adhesion; Transmembrane; Glycoprotein; EG; Colorities of the prosection of the 
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HSSP; P14151;
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-!- FUNCTION: CELL SURFACE ADHESION PROTEIN. MEDIATE THE ADHERENCE OF LYMPHOCYTES TO ENDOTHELIAL CELLS OF HIGH ENDOTHELIAL
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SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.
SIMILARITY: TO OTHER SELECTINS/LECAMS.
SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DOMAIN.
SIMILARITY: CONTAINS 1 EGF-LIKE DOMAIN.
SIMILARITY: CONTAINS 2 SUSHI (SCR) REPEATS.
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   MIFPWKCQSTQRDLWNIFKLWGWTMLCCDFLAHHGTDCWTYHYSEKPMNWQRARRFCRDN
                                                                                                                         al Similarity 98. 367; Conservative
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SUSHI 2.
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Pred. No. le-162;
2; Mismatches
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Q1-NOV-1997 (Rel. 3
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01-NOV-1997 (Rel. 35, Last sequence update)
01-NOV-1997 (Rel. 35, Last sequence update)
11-NOV-1997 (Rel. 35, Last annotation update)
12-SELECTIN PRECURSOR (LYMPH NODE HOMING RECEPTOR) (LEUKOCYTE ADHESION MOLECULE-1) (LEUKOCYTE-ENDOTHELIAL CELL ADHESION MOLECULE 1)
(LECAM1) (CD62L).
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InterPro;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pongo pygmaeus (Orangutan).
Eukaryota; Metazoa; Chordatta;
Mammalia; Eutheria; Primates;
NCBI_TaxID=9600;
                                                                                                                                                                                                                    EMBL; U73729;
HSSP; P14151;
                                                                                                                                                                                                                                                                                                                                                                                  the European Bioinformatics Institute.
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FUNCTION: CELL SURFACE ADHESION PROTEIN. MEDIATE THE ADHERENCE
OF LYMPHOCYTES TO ENDOTHELIAL CELLS OF HIGH ENDOTHELIAL
VENULES IN PERIPHERAL LYMPH NODES.
SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.
SIMILARITY: TO OTHER SELECTINES/LECAMS.
SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DOMAIN.
SIMILARITY: CONTAINS 1 EGF-LIKE DOMAIN.
SIMILARITY: CONTAINS 2 SUSHI (SCR) REPEARS.
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                                                                                        ; IPRO00436; -.; IPRO00561; -.; IPRO01304; -.; IPRO02396; -.; O00008; EGF; 1.
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PRINTS; PR00343;

SELECTIN.; EGF_1; 1.

PF00084;

lectin_c; 1.
sushi; 2.

PF00008;

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Best Local Similarity
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                 LEM1_MACMU Q95198;
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PROSITE; PS00615; C_TYPE_LECTIN_1; 1.

PROSITE; PS50041; C_TYPE_LECTIN_2; 1.

Cell adhesion; Transmembrane; Glycoprotein;

Cell adhesion; Sushi; Repeat.
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1 GKKSKKSMDDPY
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                                                                                                                                                    TICESSGIWSNPSPICQKLDKSFSMIKEGDYNPLFIPVAVMVTAFSGLAFIIWLARRLKK
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                               STANDARD,
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CYTOPLASMIC (POTENTIAL).

C-TYPE LECTIN (SHORT FORM).

EGF-LIKE.

2 X SUSHI (SCR) REPEATS.

SUSHI 2.

BY SIMILARITY.

BY SIMILARIT
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BY SIMILARITY.
L-SELECTIN.
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.5e-161;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 372;
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                                   CARBOHYD
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Budman J.
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InterPro; IPR000436; -.
InterPro; IPR000561; -.
InterPro; IPR001304; -.
InterPro; IPR002396; -.
Pfam; PF00008; EGF; 1.
Pfam; PF000059; lectin_c; 1.
Pfam; PF00084; sushi; 2.
PRINTS; PR00343; SELECTIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PROSITE; PS00022; EGF_1; 1.

PROSITE; PS01186; EGF_2; 1.

PROSITE; PS00615; C_TYPE_LECTIN_1; 1.

PROSITE; PS50041; C_TYPE_LECTIN_2; 1.

Cell adhesion; Transmembrane; Glycoprotein;
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Budman J.I., Fu H.,
Tsurushita N.;
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eutele
Mammalia; Eutheria; Primates; Catarrhini; Cercopithecidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-NOV-1997 (Rel. 35, Created)
01-NOV-1997 (Rel. 35, Last sequence update)
01-NOV-1997 (Rel. 35, Last annotation update)
L-SELECTIN PRECURSOR (LYMPH NODE HOMING RECEPTOR) (LEUKOCYTE ADHESION MOLECULE-1) (LAM-1) (LEUKOCYTE-ENDOTHELIAL CELL ADHESION MOLECULE 1)
(LECAM1) (CD62L).
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NCBI_TaxID=9544;
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2 X SUSHI (SCR) RE
SUSHI 1.
SUSHI 2.
BY SIMILARITY.
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EXTRACELLULAR
POTENTIAL.
CYTOPLASMIC (PC
C-TYPE LECTIN (
EGF-LIKE.
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Best Local S
Matches 349
                    CARBOHYD
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SEQUENCE
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228768;
01-NOV-1997 (Rel. 35, Created)
01-NOV-1997 (Rel. 35, Last sequence update)
01-NOV-1997 (Rel. 35, Last annotation update)
L-SELECTIN PRECURSOR (LYMPH NODE HOMING RECEPTOR) (LEUKOCYTE ADHESION MOLECULE-1) (LEM-1) (LEUKOCYTE-ENDOTHELIAL CELL ADHESION MOLECULE 1)
(LECAM1) (CD62L).
                                                                                                                                                                                                                                                                   _PAPHA
                                                                                                                                                              Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                            Cercopithecinae; Papio.
NCBI_TaxID=9557;
                                                                                                                                                                              Papio hamadryas (Hamadryas
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Pfam; PF000089; lectin_c; 1.

Pfam; PF00084; sushi; 2.

PRINTS; PR00343; SELECTIN.

PROSITE; PS00022; EGF_1; 1.

PROSITE; PS01186; EGF_2; 1.

PROSITE; PS00615; C_TYPE_LECTIN_1; 1

PROSITE; PS0041; C_TYPE_LECTIN_2; 1

Cell adhesion; Transmembrane; Glycop:
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Pfam; PF00008; EGF; 1.

Pfam; PF00084; sushi; 2.

Pfam; PF00084; sushi; 2.

PRINTS; PR00343; SELECTIN.

PROSITE; PS00122; EGF_1; 1.

PROSITE; PS01186; EGF_2; 1.

PROSITE; PS0155; C_TYPE_LECTIN_1; 1.

PROSITE; PS50041; C_TYPE_LECTIN_2; 1.

Cell adhesion; Transmembrane; Glycoprotein; EGI
                                                                                                                                                EMBL; X62882; CAA44676.1

HSSP; P14151; 1KJB.

InterPro; IPR000436; -

InterPro; IPR000561; -

InterPro; IPR001304; -

InterPro; IPR002396; -
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"Bovine L-selectin: a peripheral lymphocyte homing receptor.";
vet. Immunol. Immunopathol. 37:201-215(1993).

-I- FUNCTION: CELL SURFACE ADHESION PROTEIN. MEDIATE THE ADHERENCE OF LYMPHOCYTES TO ENDOTHELIAL CELLS OF HIGH ENDOTHELIAL
                                                                                                                                                                                                                                                            entities requires a license agreement (See or send an email to license@isb-sib.ch).
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Mammalia; Eutheria;
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01-FEB-1996 (Rel. 33, Last sequence update)
01-FEB-1996 (Rel. 33, Last sequence update)
01-FEB-1996 (Rel. 33, Last annotation update)
L-SELECTIN PRECURSOR (LYMPH NODE HOMING RECEPTOR) (LEUKOCYTE ADHESION MOLECULE-1) (LAM-1) (LEUKOCYTE-ENDOTHELIAL CELL ADHESION MOLECULE 1)
(LECAM1) (CD62L).
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SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.
SIMILARITY: TO OTHER SELECTINS/LECAMS.
SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DC
SIMILARITY: CONTAINS 1 EGF-LIKE DOMAIN.
SIMILARITY: CONTAINS 2 SUSHI (SCR) REPERTS.
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                                                                                                                                                                                                                                                                                                                                                                                                                               SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                       Selectin;
                                                                                                                                     61
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                                                 GKKSKR
                      TICGLSGNWSSPSPRCQKINRTISINEESDYNPLFIPVAVMVTAFSGLAFIIWLARRLK-
                              TICESSGIWSNPSPICQKLDKSFSMIKEGDYNPLEIPVAVMYTAFSGLAFIIWLARRLKK
                                                                                   NCDVGYYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEETT
                                                                                                                                 NCDLGYYGPECQFVTQCVPLEAPKLGTMACTHPLGNFSFMSQCAFNCSKGTDMIGVEETT
                                                                                                      NKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNHTC
                                                                                                                                                                    MLCPWKCQNAQRGLWNVFKLWVWIMLCCDFFAHHGTDCWTYHYSKRPMPWEKARAFCREN
                                                                                                                                                                                                 Similarity
           366
                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                  ΑA;
                                                                                                                                                                                                                          79.5%;
77.0%;
                                                                                                                                                                                                                            MW.
                                                                                                                                                                                                                                                                                                                                                                                                                                     Repeat.
                                                                                                                                                                                         42;
                                                                                                                                                                                                                         N-LINKED (GLCNAC.
                                                                                                                                                                                              Score 1682; DB 1; Pred. No. 6.5e-130;
                                                                                                                                                                                                                                                                                      SUSHI 1.
SUSHI 2.
BY SIMILA
                                                                                                                                                                                                                                                                                                                                                                       EGF-LIKE.
2 X SUSHI
                                                                                                                                                                                                                                                                                 N-LINKED
                                                                                                                                                                                                                                                                                                                                                                                                                      POTENTIAL.
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C-TYPE LECT
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POTENTIAL.
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GELCNAC.

GELCNAC.
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                                                                                                                                                                                                                                                                                                                                                                       REPEATS
                                                                                                                                                                                                                          CRC64;
                                                                                                                                                                                                      Length 370;
                                                                                                                                                                                                                                     (POTENTIAL)
                                                                                                                                                                                                                                (POTENTIAL)
                                                                                                                                                                                        2;
                                                                                                                                                                                        Gaps
                                    360
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1;

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Pfam; PF00008; EGF; 1.

Pfam; PF000059; lectin_c; 1.

Pfam; PF00084; sushi; 2.

PRINTS; PR00343; SELECTIN.

PROSITE; PS00022; EGF_1; 1.

PROSITE; PS01186; EGF_2; 1.

PROSITE; PS0165; C_TYPE_LECTIN_1; 1.

PROSITE; PS00615; C_TYPE_LECTIN_2; 1.
                         DOMAIN
DOMAIN
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DOMAIN
DISULFID
CARBOHYD
CARBOHYD
CARBOHYD
CARBOHYD
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TRANSMEM
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 This
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDLINE-92329548; PubMed-1378303;
Watanabe T., Song Y., Hirayama Y., Tamatani T., Kuida K.,
"Sequence and expression of a rat cDNA for LECAM-1.";
Biochim. Biophys. Acta 1131:321-324(1992).
-I- FUNCTION: CELL SURFACE ADHESION PROTEIN. MEDIATE THE
OF LYMPHCCYTES TO ENDOTHELIAL CELLS OF HIGH ENDOTHELI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Rattus norvegicus (Rat).
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Selectin;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                InterPro;
InterPro;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       L-SELECTIN PRECURSOR (LYMPH NODE HOMING RECEPTOR) (LEUKOCYTE ADHESION MOLECULE-1) (LAM-1) (LY-22) (LYMPHOCYTE SURFACE MEL-14 ANTIGEN) (LEUKOCYTE-ENDOTHELIAL CELL ADHESION MOLECULE 1) (LECAM1) (CD62L).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       InterPro;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             VENULES IN PERIPHERAL LYMPH NODES.
SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.
SIMILARITY: TO OTHER SELECTINS/LECAMS.
SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DOMAIN
SIMILARITY: CONTAINS 1 EGF-LIKE DOMAIN.
SIMILARITY: CONTAINS 2 SUSHI (SCR) REPEATS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         S23936; S23936.
; P14151; 1KJB.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SWISS-PROT entry is copyright. It is produced through a centre the Swiss Institute of Bioinformatics and the EMBL
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IPR000561; -...
IPR001304; -...
IPR002396; -...
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           N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BAA01613.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Transmembrane; Glycoprotein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sushi;
         EGF-LIKE.
2 X SUSHI 1.
SUSHI 1.
SUSHI 2.
BY SIMILA
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                                                                                                                                                                                                                                                                                                                                         EXTRACELLULAR (POTENTIAL).
POTENTIAL.
CYTOPLASMIC (POTENTIAL).
C-TYPE LECTIN (SHORT FORM)
BY SIMILARITY.
BY SIMILARITY.
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5Y SIMILARITY.
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6LINKED (GLCNAC.
6LINKED (GLCNAC.
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                                                                                                                                                                                                                                                                                                         X SUSHI
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; Murinae; Rattus.
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SEQUENCE
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P18337;

P18337;

01-NOV-1990 (Rel. 16, Created)

01-NOV-1990 (Rel. 16, Last sequence update)

01-FEB-1996 (Rel. 3, Last annotation update)

L-SELECTIN PRECURSOR (LYMPH NODE HOMING RECEPTOR) (LEUKOCYTE ADHESION MOLECULE-1) (LYMPLOCYTE SURFACE MEL-14 ANTIGEN)

(LEUKOCYTE-ENDOTHELIAL CELL ADHESION MOLECULE 1) (LECAMI) (CD62L).
SEQUENCE FROM N.A.
MEDLINE-8916843; PubMed-2647302;
MEDLY N.A., Singer M.S., Yednock
Lasky L.A., Singer M.S., Yednock
Rodriguez H., Nguyen T., Stachel
"Cloning of a lymphocyte homing r
                                                                  Siegelman M.H., Cheng I.C., Weissman I "The mouse lymph node homing receptor lymphocyte cell surface marker Ly-22: endothelial binding."; Cell 61:611-622(1990).
                                                                                                                                                     SEQUENCE FROM N.A.

MEDLINE-89162048; PubMed=2646713;

Siegelman M.H., van de Rijn M., Weissman I.L.

"Mouse lymph node homing receptor cDNA clone revealing tandem interaction domains.";

Science 243:1165-1172(1989).
                                                                                                              MEDLINE-90263086;
Siegelman M.H., Cl
                                                                                                                                                                                                                                               Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                     SELL OR LNHR OR LY-22.
Mus musculus (Mouse).
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                                                                                                                                                                                                                                    NCBI_TaxID=10090
                                                                                                                                                                                                                                                                                                                                                                                                                               361
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                                                                                                                                     EQUENCE FROM
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42441
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Rodentia;
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76.9%;
            Yednock T.A.,
Stachel S., Ro
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Pred. No. 1.5e
35; Mismatches
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3B88AE0F1E4D191A CRC64
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Sciurognathi; Muridae;
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or is identical
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                       Dowbenko D.,
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Pfam; PF00008; EGF; 1.

Pfam; PF00059; lectin_c; 1.

Pfam; PF00084; Sushi; 2.

PRINTS; PR00343; SELECTIN.

PROSITE; PS000122; EGF 1; 1.

PROSITE; PS00615; C_TYPE_LECTIN_1; 1.

PROSITE; PS01186; EGF 2; 1

PROSITE; PS0041; C_TYPE_LECTIN_2; 1.
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MGD; MGI:98279; Sell.
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Dowbenko D.J., Diep A., Taylor B.A., Lu
"Characterization of the murine homing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Genomics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             correspondence between protein domains Genomics 9:270-277(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FUNCTION: CELL SUPFÁCE ADHESION PROTEIN. MEDIATE THOOP LYMPHOCYTES TO EMDOTHELIAL CELLS OF HIGH ENDOTHE VENULES. IN PERLPHERAL LYMPH NODES.

SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.
SIMILARITY: TO OTHER SELECTINS/LECAMS.
SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DOMAIN.
SIMILARITY: CONTAINS 1 EGF-LIKE DOMAIN.
SIMILARITY: CONTAINS 2 SUSHI (SCR) REPEATS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            s SWISS-PROT entry is copyright. It is produced through a collaboration ween the Swiss Institute of Bioinformatics and the EMBL outstation - European Bioinformatics Institute. There are no restrictions on its by non-profit institutions as long as its content is in no way
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;; M36005; AAA39722.1; -.
;; M36058; AAA39723.1; -.
;; M25324; -; NOT_ANNOTATED
;; M64549; AAA75651.1; -.
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M64545;
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    9; AAA75651.1; J
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AAA75651.1; J
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EXTRACELLULAR
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                                                                                                                                                                     (POTENTIAL)
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Best Local S
Matches 283
Burns S.A., Neufeld E.J., Donady J.J.;

Submitted (JUL-1994) to the EMBL/GenBank/DDBJ databases.

-i- FUNCTION: CA(2+)-DEPENDENT RECEPTOR FOR MYELOID CELLS TH

TO CARBOHYDRATES ON NEUTROPHILS AND MONOCYTES. MEDIATES

INTERACTION OF ACTIVATED ENDOTHELIAL CELLS OR PLATELETS

LEUKOCYTES. THE LIGAND RECOGNIZED IS SIALYL-LEWIS X.

-i- SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.

-i- SIMILARITY: TO OTHER SELECTINS/LECAMS.

-i- SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DOMAIN.

-i- SIMILARITY: CONTAINS 1 EGF-LIKE DOMAIN.

-i- SIMILARITY: CONTAINS 8 SUSHI (SCR) REPEATS.
                                                                                                                                                                                                                   P98109;
01-FEB-1996 (Rel. 33, Created)
01-FEB-1996 (Rel. 33, Last sequence update)
01-OCT-2000 (Rel. 40, Last annotation update)
0-CT-2000 (Rel. 40, Last annotation update)
0-SELECTIN PRECURSOR (GRANULE MEMBRANE PROTEIN 140) (GMP-140) (PADGEM)
(CD62P) (LEUKOCYTE-ENDOTHELIAL CELL ADHESION MOLECULE 3) (LECAM3).
                                                                                                                                                                                 Eukaryota; Metazoa; Chordata; Craniat
Mammalia; Eutheria; Cetartiodactyla;
Bovidae; Caprinae; Ovis.
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                                                                                                                                      TISSUE-Heart;
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actyla; Ruminantia;
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pfam; pF00008; EGF; 1.
pfam; pF000059; lectin_c; 1.
pfam; pF000084; sushi; 8.
prints; pr00343; SELECTIN.
pROSITE; pS00022; EGF_1; 1.
pROSITE; pS01186; EGF_2; 1.
pr0SITE; pS001515; C_TYPE_LECTIN_1; 1.
pROSITE; pS0041; C_TYPE_LECTIN_2; 1.
Cell adhesion; Transmembrane; Glycoprotein; EG
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HSSP; P16109;
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                                                                             CARBOHYD
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InterPro; IPR000561; -.
InterPro; IPR001304; -.
InterPro; IPR002396; -.
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   AAB59261.1; -.
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P16109;

P16109;

O1-APR-1990
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01-APR-1990 (Rel. 14, Created)
01-AUG-1990 (Rel. 15, Last sequence update)
01-OCT-2000 (Rel. 40, Last annotation update)
p-SELECTIN PRECURSOR (GRANULE MEMBRANE PROTEIN 140) (GMP-140) (PADGEM)
p-SELECTIN PRECURSOR (GRANULE MEMBRANE PROTEIN 140) (GMP-140) (PADGEM)
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VARIANT
VARIANT
                                                                                           MEDLINE-93266599; PubMed-7684381;
Fujimoto T., Stroud E., Whatley R.E., Prescott
Laposata M., McEver R.P.;
"P-selectin is acylated with palmitic acid and
cysteine 766 through a thioester linkage.";
J. Biol. Chem. 268:11394-11400(1993).
                                                                                                                                                                                                     SEQUENCE FROM N.A.
MEDLIND-89168432; PubMed=2466574;
Johnston G.I., Cook R.G., McEver R.P.;
Johnston G.I., Cook R.G., mcEver R.P.;
"Cloning of GMP-140, a granule membrane protein of platelets and endothelium: sequence similarity to proteins involved in cell adhesion and inflammation.";
                                            STRUCTURE BY NMR OF 160-199.
MEDLINE-97057176; PubMed-8901515;
Freedman S.J., Sanford D.G., Bach
                                                                                                                                                                                                                                                                                                               SELP OR GMRP.
Homo sapiens (Human).
Eukaryota; Metazoa; Chordata;
           "Structure and selectin.";
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                                                                                                                                                                                                                                                                                                      Mammalia;
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HCTALGVWTAPTPVCKAI 322
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Pred. No. 1.8e-67;
1; Mismatches 106;
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DR EMBL; M60223; AAA35910.1; JOINED.

DR EMBL; M60224; AAA35910.1; JOINED.

DR EMBL; M60225; AAA35910.1; JOINED.

DR EMBL; M60226; AAA35910.1; JOINED.

DR EMBL; M60226; AAA35910.1; JOINED.

DR EMBL; M60227; AAA35910.1; JOINED.

DR EMBL; M60229; AAA35910.1; JOINED.

DR EMBL; M60231; AAA35910.1; JOINED.

DR EMBL; M60231; AAA35910.1; JOINED.

DR EMBL; M60232; AAA35910.1; JOINED.

DR EMBL; M60233; AAA35910.1; JOINED.

DR EMBL; M60234; AAA35910.1; JOINED.

DR PIR; M30359; AAA35910.1; JOINED.

DR PIR; M60234; DAAA35910.1; JOINED.

DR PIR; M73610; -.

DR InterPro; IPR000436; -.

DR InterPro; IPR001304; -.

DR InterPro; IPR001304; -.

DR InterPro; IPR001304; SELECTIN.

DR PFam; PF00008; EGF; 1.

DR PFAm; PF00008; EGF; 1.

DR PFAm; PF000084; SUShi; 9.

DR PROSITE; PS00146; EGF=1; 1.

DR PROSITE; PS001186; EGF=1; 1.

DR PROSITE; PS001186; EGF=1; 1.

DR PROSITE; PS000136; C_TYPE_LECTIN_2; 1.

DR PROSITE; PS000136; C_TYPE_LECTIN_2; 1.

DR PROSITE; PS00013; SUShi; Repeat; Lipoprotein; EGF-like domain; Lect

W Selectin; Signal; Sushi; Repeat; Lipoprotein; Palmitate; Polymory

W JD-structure.
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"The P-selectin gene is highly polymorphic: reduced frequency of the
Pro715 allele carriers in patients with myocardial infarction.";

Hum. Mol. Genet. 7:1277-1284(1998).

-i- FUNCTION: CA(2+)-DEPENDENT RECEPTOR FOR MYELOID CELLS THAT BINDS
TO CARBOHYDRATES ON NEUTROPHILS AND MONOCYTES. MEDIATES THE
INTERACTION OF ACTIVATED ENDOTHELIAL CELLS OR PLATELETS WITH
LEUKOCYTES. THE LIGAND RECOGNIZED IS SIALYL-LEWIS X.

-i- TISSUE SPECIFICITY: STORED IN THE ALPHA-GRANULES OF PLATELETS
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AND WEIBEL-PALADE BODIES OF ENDOTHELIAL CELLS. UPON CELL
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3D-STRUCTURE MODELING OF 42-161.
MEDLINE-94093388; PubMed-7505680;
Bajorath J., Stenkamp R., Aruffo A.;
"Knowledge-based model building of proteins: concepts and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Herrmann
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SIMILARITY: TO OTHER SELECTINS/LECAMS.

SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DOMAIN.

SIMILARITY: CONTAINS 1 EGF-LIKE DOMAIN.

SIMILARITY: CONTAINS 9 SUSHI (SCR) REPEATS.

SIMILARITY: CONTAINS 9 SUSHI (SCR) REPEATS.

DATABASE: NAME-PROW; NOTE-CD guide CD62P entry;

WWW-"http://www.ncbi.nlm.nih.gov/prow/cd/cd62p.htm".
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7; Pubmed-9668170;
Ricard S., Nicaud V., Mallet C., Evans A.,
Arveiler D., Luc G., Cambien F.;
gene is highly polymorphic: reduced frequency
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                             Polymorphism;
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O01102;
O01102;
O1-APR-1993 (Rel. 25, Created)
O1-APR-1993 (Rel. 25, Last sequence update)
O1-OCT-2000 (Rel. 40, Last annotation update)
P-SELECTIN PRECURSOR (GRANULE MEMBRANE PROTEIN MOLECULE 3) (LECAM3).
(CD62P) (LEUKOCYTE-ENDOTHELIAL CELL ADHESION MOLECULE 3) (LECAM3).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Weller A., "Cloning of
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Sanders W.E. Jr., Wilson R.W., Ba
"Molecular cloning and analysis o
selectin.";
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MEDLINE=92340571; PubMed=1378846;
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loning of the mouse endothelial selectins. E
d P-selectin is inducible by tumor necrosis
Biol. Chem. 267:15176-15183(1992).
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                                                                                                                          INDUCTION: BY TUMOR NECROSIS FACTOR ALPHA.
SIMILARITY: TO OTHER SELECTINS/LECAMS.
SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DOMAIN.
SIMILARITY: CONTAINS 1 ECF-LIKE DOMAIN.
SIMILARITY: CONTAINS 8 SUSHI (SCR) REPEATS; MOUSE P-LECTIN LACKS
THE HUMAN SUSHI-2 EQUIVALENT.
                                                                                                                                                                                                                                                       ON 80:795-800(1992).

FUNCTION: CA(2+)-DEPENDENT RECEPTOR FOR MYELOID CELLS THAT BINDS FUNCTION: CA(2+)-DEPENDENT RECEPTOR FOR MYELOID CELLS THE TO CARBOHYDRATES ON NEUTROPHILS AND MONOCYTES. MEDIATES THE INTERACTION OF ACTIVATED ENDOTHELIAL CELLS OF PLATELETS WITH LEUKOCYTES. THE LICAND RECOGNIZED IS SIALVL-LEWIS X. SUBCELLULAR LOCATION: TYPE I MEMBRANE PARTIES.

TISSUE SPECIFICITY: STORED IN THE ALPHA-GRANULES OF PLATELETS TISSUE SPECIFICITY: STORED IN THE ALPHA-GRANULES OF PLATELETS AND MEIBEL-PALADE BODIES OF ENDOTHELIAL CELLS. UPON CELL.
                                                                                                                                                                                                                           ACTIVATION BY AGONISTS, P-SELECTIN IS THE CELL SURFACE.
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Pfam; FF0005; lectin_c; 1.

Pfam; PF00084; sushi; 8.

PRINTS; PR00343; SELECTIN.

PROSITE: PS00022; EGF_1; 1.

PROSITE: PS00186; EGF_2; 1.

PROSITE: PS00615; C_TYPE_LECTIN_1; 1.

PROSITE: PS0041; C_TYPE_LECTIN_2; 1.

R PROSITE: PS50041; C_TYPE_LECTIN_2; 1.
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InterPro; IPR000436; -.
InterPro; IPR000561; -.
InterPro; IPR001304; -.
InterPro; IPR002396; -.
Pfam; PF00008; EGF; 1.
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EMBL; M72332; AAA37712.
PIR; A42755; A42755
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    MW;
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8 X SUSHI (SCR)
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Length

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EMBL; L12041; AAA30743.1; HSSP; P16109; 1FSB.
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"Isolation and characterization of a bovine cDNA encoding a
functional homolog of human P-selectin.";
Biochem. Biophys. Res. Commun. 192:338-344 (1993).

-!- FUNCTION: CA(2+)-DEPENDENT RECEPTOR FOR MYELOID CELLS THAT BI
TO CARBOHYDRATES ON NEUTROPHILS AND MONCYTES. MEDIATES THE
INTERACTION OF ACTIVATED ENDOTHELIAL CELLS OR PLATELETS WITH
LEUKOCYTES. THE LIGAND RECOGNIZED IS SIALYL-LEWIS W.
-!- SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.
-!- TISSUE SPECIFICITY: STORED IN THE ALPHA-GRANULES OF PLATELETS
AND WEIBEL-PALADE BODIES OF ENDOTHELIAL CELLS. UPON CELL
AND WEIBEL-PALADE BODIES OF ENDOTHELIAL CELLS. UPON CELL
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AND WEIBEL-PALADE BODIES OF ENDOTHELIAL CELLS.
                                                                                                                                                                                                                                                                                                         THE CELL SURFACE.

SIMILARITY: TO OTHER SELECTINS/LECAMS.
SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMI
SIMILARITY: CONTAINS 1 EGF-LIKE DOMAIN.
SIMILARITY: CONTAINS 6 SUSHI (SCR) REPEAT
THE HUMAN SUSHI 3, -4 AND -7 EQUIVALENTS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TISSUE=Capillary endothelium; MEDLINE=93249394; PubMed=7683458;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-NOV-1995 (Rel. 32, Created)
01-NOV-1995 (Rel. 32, Last sequence update)
15-JUL-1999 (Rel. 38, Last annotation update)
P-SELECTIN PRECURSOR (GRANULE MEMBRANE PROTEIN 140)
(CD62P) (LEUKOCYTE-ENDOTHELIAL CELL ADHESION MOLECUI
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Mammalia; Eutheria;
                                                                                                                                                                                                                                SWISS-PROT entry is copyright. It is produced through a collaboration een the Swiss Institute of Bioinformatics and the EMBL outstation - European Bioinformatics Institute. There are no restrictions on its by non-profit institutions as long as its content is in no way
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actyla; Ruminantia;
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minantia; Pecora; Bovoidea
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182 CDVGYYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEETTC
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PROSITE; PS00022; EGE_1; 1.
PROSITE; PS01186; EGF_2; 1.
PROSITE; PS00615; C_TYPE_LECTIN_1; 1.
PROSITE; PS50041; C_TYPE_LECTIN_2; 1.
Cell adhesion; Transmembrane; Glycoprotein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DOMAIN
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                                                                                                                                                                                                                                                                         N
                                                                                    KKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVBIINNHTCN
                                                                                                                                                             TDLVAIQNKAETEYLEKTLPFSRSYYWIGIRKIGGIWTWVGTNKSLTEEABNWGDGEPNN
                                                           KRNNQDCVEIYIKSLSAPGKWNDEPCWKRKRALCYRASCQDMSCSKQGECIETIGNYTCS
                                                                                                                                         TDLVAIQNKNEIAYLNETIPYYNSYYWIGIRKINNKWTWVGTKKTLTEEAENWADNEPNN
                                                                                                                                                                                                                      IWNWR----FQRAVFRTVQLLCFSVLIFEVINQKEVSAWTYHYSNKTYSWNYSRAFCQKYY
                                                                                                                                                                                                                                                            IFPWKCQSTQRDLWNIFKLWGWTMLCCDFLAHHGTYCWTYHYSEKPMNWQRARRFCRDNY
                                                                                                                                                                                                                                                                                                               155;
                                                                                                                                                                                                                                                                                                                              Similarity
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N-LINKED (GL
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BY SIMILARITY
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6 X SUSHI (SCR) REPEATS.
SUSHI 1.
SUSHI 2.
SUSHI 3.
SUSHI 4.
SUSHI 5.
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Pred. No. 1.
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C-TYPE LECTIN (SHORT FO
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P-SELECTIN.
EXTRACELLULAR (POTENTIAL).
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CRC64;
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between the Euro

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InterPro; InterPro;

InterPro;

InterPro; IPRO Pfam; PF00008;

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                               Pfam; PF00059; lectin_c; 1.

Pfam; PF00084; sushi; 8.

PRINTS; PR00343; SELECTIN.

PROSITE; PS00022; EGF_1; 1.

PROSITE; PS00186; EGF_2; 1.

PROSITE; PS00186; C_TYPE_LECTIN_1; 1.

PROSITE; PS00041; C_TYPE_LECTIN_2; 1.

PROSITE; PS50041; 
                                                                                                                                                                                                                                        HSSP; P16109; 1FSB.
InterPro; IPR000436; -.
InterPro; IPR000561; -.
InterPro; IPR001304; -.
InterPro; IPR002396; -.
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P98106;
P98106;
P98106;
01-FEB-1996 (Rel. 33, Created)
01-FEB-1996 (Rel. 33, Last sequence update)
01-OCT-2000 (Rel. 40, Last annotation update)
P-SELECTIN PRECURSOR (GRANULE MEMBRANE PROTEIN 140) (GMP-140) (PADGE POSTER OF THE PROCYTE-ENDOTHELIAL CELL ADHESION MOLECULE 3) (LECAM3).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                13
_RAT
                                                                                                                                                                                                                                                                                                                                                                                                    This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entitles requires a license agreement (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "Cloning, sequence comparison encoding rat P-selectin."; Gene 145:251-255(1994).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TISSUE-Lung;
MEDLINE-9433817; PubMed-7520013;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota; Metazoa;
Mammalia; Eutheria;
NCBI_TaxID=10116;
                                                                                                                                                                                                                                                                                                                                                                         or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                              EMBL; L23088; AAA60325.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Rattus norvegicus (Rat).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            INTERACTION OF ACTIVATED ENDOTHELIAL CELLS OR PLATELETS WITH LEUKOCYTES. THE LIGAND RECOGNIZED IS SIALYL-LEWIS X.

SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.

TISSUE SPECIFICITY: EXPRESSED IN ALL TISSUES EXAMINED: SPLEEN, LUNG, BRAIN, LIVER, HEART, KIDNEY, THYMUS, SMALL INTESTINE. INDUCTION: ACUTE INFLAMATION (PROBABLY).

SIMILARITY: TO OTHER SELECTINS/LECAMS.
SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DOMAIN.

SIMILARITY: CONTAINS 1 EGF-LIKE DOMAIN.
SIMILARITY: CONTAINS 1 EGF-LIKE DOMAIN.
SIMILARITY: CONTAINS 8 SUSHI (SCR) REPEATS; RAT P-LECTIN LACKS HUMAN SUSHI-2 EQUIVALENT.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FUNCTION: CA(2+)-DEPENDENT RECEPTOR FOR MYELOID CELLS THAT BINDS TO CARBOHYDRATES ON NEUTROPHILS AND MONOCYTES. MEDIATES THE INTERACTION OF ACTIVATED ENDOTHELIAL CELLS OR PLATELETS WITH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ICESSGIWSNPSPICQKL 319
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    HCTALGVWTAPTPVCKAL 322
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CYPGFYGPECEYVRECGEFDLPQHVHMNCSHPLGNFSFNSHCSFHCAEGYALNGPSELEC
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; Signal; Sushi; 1
1 41
42 768
42 709
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Rodentia;
EXTRACELLULAR (POTENTIAL)
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                                                          EGF-like don
n; Palmitate
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of the
                                                                               domain;
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                                         FAYDSSCKFECQPGYRMRGSDILHCTDSGQWSEPLPTCEAI 322
                                                                                 FSFTSACTFICSEGTELIGKKKTICESSGIWSNPSPICQKL 319
                                                                                                                                                                                                                                                                                                                                                                                                                                                  150;
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N-L
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SUSHI 2.
SUSHI 3.
SUSHI 4.
SUSHI 5.
SUSHI 6.
SUSHI 7.
SUSHI 7.
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39 WTYHYSEKPMNWQRARRFCRDNYTDLVAIQNKAEIEYLEKTLPFSRSYYWIGIRKIGGIW
FSSQCAFSCSEGTNLTGIEETTCGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLAS
                                                                                                                                                                  TWYGTIKKSLTEEAENWGDGEPNNKKNKEDCYEIYIKRNKDAGKWNDDACHKLKAALCYTA 158
                                                                     SCQDMSCNSQGERIETIGSYTCSCYPGFYGPECEYYQECGKFDIPQHYLMNCSHPLGDFS
                                                                                        SCQPWSCSGHGECVEIINNHTCNCDVGYYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFS
                                                                                                                                                 TWVGTNKTLTAEAENWADNEPNNKRNNQDCVEIYIKSNSAPGKWNDEPCFKRKRALCYTA
                                                                                                                                                                                                                     WTYNYSTKAYSWNNSRAFCKRHFTDLVAIQNKNEIAHLNDVIPYVNSYYWIGIRKINNKW
                                                                                                                                                                                                                                                                                            Pred. No. 1.1e
2; Mismatches
                                                                                                                                                                                                                                                                                                               Score 885; DB 1;
Pred. No. 1.1e-64;
                                                                                                                                                                                                                                                                                                                                                                                     ENDOCYTOSIS SIGNAL
26FD7E8A5F3F1316
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PALMITATE (BY SIM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CYTOPLASMIC (POTENTIAL).
C-TYPE LECTIN (SHORT FORM).
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GLCNAC.
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IGNAL (PROBABLE).
F1316 CRC64;
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PARTER REPORTED FOR THE PROPERTY OF THE PROPER
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LEM2_HO
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Hession C., Osuca
M., Pittack C
        VARIANT ARG-149.
WEDLINE-99134508; PubMed-9933738;
Ye S.O., Usher D., Virgil D., Zha
"A PstI polymorphism detects the
                                                                                                                                                                                                             MEDLINE=95179107; PubMed=7533025;
Wenzel K., Felix S., Klebbr F.X., Brachold R.,
Schulte K.L., Glaser C., Rohde K., Baumann G.,
"E-selectin polymorphism and atherosclerosis: a
Hum. Mol. Genet. 3:1935-1937(1994).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Graves B.J., Crowther R.L., Chandran C., Rumberger J.M., Li S., Huang K.-S., Presky D.H., Familletti P.C., Wolitzky B.A., Burns D.K.; "Insight into E-selectin/ligand interaction from the crystal structure and mutagenesis of the lec/EGF domains."; Nature 367:532-538(1994).
                                                                                                                                                                                                                                                                                                                                                                                    VARIANT ARG-149.
MEDLINE=95179107;
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3D-STRUCTURE MODELING OF LECTION CONTROL OF LICENCE CONTROL OF LECTION CONTROL OF LICENCE CONTROL OF LIC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE=94150646;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    X-RAY CRYSTALLOGRAPHY (2.0 ANGSTROMS)
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"Modelling
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SEQUENCE FROM N.A.
MEDLINE-90175359; PubMed-1689848;
MEDLINE-90175359; PubMed-1689848; PubMed-16898848; PubMed-16898848; PubMed-16898848; PubMed-1689888; PubMed-1689888; PubMed-1689888; PubMed-16898888; PubMed-1689888; PubMed-1689888; PubMed-1689888; PubMed-168988
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Phillips M.L.,
Hakomori S., P
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MEDLINE=91115870; PubMed=1703529;
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Eukaryota; Metazoa; C
Mammalia; Eutheria; F
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01-APR-1990 (Rel. 14, Created)
01-AUG-1990 (Rel. 15, Last sequence update)
01-OCT 2000 (Rel. 40, Last annotation update)
E-SELECTIN PRECURSOR (ENDOTHELIAL LEUKOCYTE AL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  'ELAM-1 mediates cell adhesion
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c. Natl. Aca
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250:1130-1132(1990).
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Acad. Sci. U.S.A.
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The mutation
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    Yochim S.E., of serine-128
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GLYCOLIPIDS).

1 GLYCOLIPIDS).

2 -!- SUBCELLULAR LOCATION: TYPE I MEMBRANE PROTEIN.

2 -!- POLYMORPHISM: A POLYMORPHISM IN POSITION 149 IS ASSOCIATED WITH A CHIGHER RISK OF CORONARY ARTERY DISEASE (CAD). A SIGNIFICANTLY IN CORONARY ARTERY DISEASE (CAD). A SIGNIFICANTLY COMPANION FREQUENCY (ARG-149) IS OBSERVED IN PATIENTS WITH AN CHIGHER MUTATION FREQUENCY (ARG-149) IS OBSERVED IN PATIENTS WITH AN CHICAGO COMPARED WITH AN CHICAGO COMPARED PROVEN SEVERE ATHEROSCLEROSIS COMPARED WITH AN CHICAGO COMPARITY: TO OTHER SELECTINS/LECAMS.

3 C. -!- SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DOMAIN.

3 C. -!- SIMILARITY: CONTAINS 1 C-TYPE LECTIN FAMILY DOMAIN.

4 C. -!- SIMILARITY: CONTAINS 1 SUSHI (SCR) REPEATS.

5 C. -!- SIMILARITY: CONTAINS 1 SUSHI (SCR) REPEATS.

6 C. -!- SIMILARITY: CONTAINS 1 SUSHI (SCR) REPEATS.

6 C. -!- SIMILARITY: MAME-PROW; NOTE-CD guide CD62E entry;

6 C. -!- SIMILARITY: MAME-PROW; NOTE-CD guide CD62E htm".
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Pfam; PF00059; lectin_c; 1.

Pfam; PF00084; sushi; 6.

PRINTS; PR000343; SELECTIN.

PROSITE; PS00022; EGF_1; 1.

PROSITE; PS001186; EGF_2; 1.

PROSITE; PS001186; EGF_2; 1.

PROSITE; PS00115; C_TYPE_LECTIN_1; 1.

PROSITE; PS0041; C_TYPE_LECTIN_2; 1.

Cell adhesion; Transmembrane; Glycoprotein; EG
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InterPro; IPR001304;
InterPro; IPR002396;
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J. Biomed. So
-!- FUNCTION
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1KJA; 03-APR-96
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              requires a license agreement (S
an email to license@isb-sib.ch).
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                                                                                                                                                                                                                                                                                                                                            Signal;
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Best Local Similarity
Matches 145; Conser
                                                                                                                                                                                                        LT 15
_RABIT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DISULFID
CARBOHYD
                                                                            TEM2_RABIT STANDARD; PRT; 551 AA.

P27113;

01-AUG-1992 (Rel. 23, Created)

01-AUG-1992 (Rel. 23, Last sequence update)

01-NOV-1997 (Rel. 35, Last annotation update)

E-SELECTIN PRECURSOR (ENDOTHELIAL LEUKOCYTE ADHESION MOLECULE 1)

(ELAM-1) (LEUKOCYTE-ENDOTHELIAL CELL ADHESION MOLECULE 2) (LECAM2)

(CD62E).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CONFLICT
SEQUENCE
              Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                 Oryctolagus
                                                                                                                                                                                                                                                                                                                                       202
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                                 cuniculus (Rabbit).
Wetazoa; Chordata; (
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                  Lagomorpha;
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S -> R (ASSOCIATED W
CAD).
/FTId-VAR_004191.
H -> Y (IN REF. 2).
W; 7D43E3C0D1229229
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BY
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                               Craniata;
                  Leporidae;
                                 Vertebrata; Euteleostomi;
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.6e-63;
                  Oryctolagus
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DOMAIN
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PROSITE; PS01186; EGF_2; 1.

PROSITE; PS00615; C_TYPE_LECTIN_1; 1.

PROSITE; PS50041; C_TYPE_LECTIN_2; 1.

Cell adhesion; Transmembrane; Glycoprotein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             pfam; PF00008; EGF; 1.
pfam; PF00059; lectin_c;
pfam; PF00084; sushi; 5.
pRINTS; PR00343; SELECTI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EMBL; M91004; AAA31243.1;
EMBL; M91005; AAA31244.1;
HSSP; P16581; 1KJA.
InterPro; IPR000436; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entitles requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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SEQUENCE FROM N.A.
SEQUENCE FROM N.A.
TISSUE-Heart;
MEDLINE-92189729; PubMed-1372169;
Larigan J.D., Tsang T.C., Rumberger J.M., Burns D.K.;
Larigan J.D., Tsang T.C., Rumberger J.M., Burns D.K.;
"Characterization of cDNA and genomic sequences encoding rabbit
ELAM-1; conservation of structure and functional interactions with
                                                                                                                                                                                                                                                                                                                                       DOMAIN
                                                                                                                                                                                                                                                                                                                                                    DOMAIN
                                                                                                                                                                                                                                                                                                                                                                                                                   SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                  Selectin;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      s SWISS-PROT entry is copyright. It is produced through a collaboration ween the Swiss Institute of Bioinformatics and the EMBL outstation - European Bioinformatics Institute. There are no restrictions on its by non-profit institutions as long as its content is in no way
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; IPR000561; -.; IPR001304; -.; IPR002396; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                Signal;
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   Repeat
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EXTRACELLULAR (POTENTIAL).

POTENTIAL.

CYTOPLASMIC (POTENTIAL).

C-TYPE LECTIN (SHORT FORM).

EGF-LIKE.
S X SUSHI (SCR) F
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SUSHI 3.
SUSHI 3.
SUSHI 4.
SUSHI 4.
SUSHI 4.
SUSHI 5.
BY SIMILARITY.
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IN (SHORT FORM).
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Best Local Similarity 51.8%;
Matches 146; Conservative
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CH
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459
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N-LINKED (GLCNAC...) (POT)

N-LINKED (GLCNAC...) (POT)
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Search completed: October 13, 2001, 02:59:38 Job time: 335 sec

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Result
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Maximum DB
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   Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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1: sp_archea:*
2: sp_bacteria
3: sp_fung1:*
4: sp_human:*
5: sp_inverteb
6: sp_mammal:*
7: sp_mhc:*
8: sp_organell
9: sp_phage:*
11: sp_unclass
13: sp_verteb
13: sp_verteb
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length: 2000000000
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  BLOSUM62
Gapop 10.0 ,
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2116
1 MIFPWKCQSTQRDLWNIFKL.....WLARRLKKGKKSKRSMNDPY
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sp_plant:*
sp_rodent:*
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sp_vertebrate:*
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Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Search time 85 Seconds (without alignments) 579.029 Million cell updates/sec
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                  Q9uj43 homo sapien
Q28629 oryctolagus
Q68762 rattus norv
Q95509 homo sapien
Q95507 homo sapien
Q95508 homo sapien
Q28290 canis famil
Q29097 sus scrofa
Q28657 oryctolagus
Q9g160 canis famil
Q28982 sus scrofa
Q28657 mus musculu
Q9vyr4 drosophila
Q18658 drosophila
Q18649 caenorhabdi
Q1877 drosophila
Q18870 homo sapien
        98nu60
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4 drosophila
8 drosophila
9 caenorhabdi
7 drosophila
0 homo sapien
6 homo sapien
7 homo sapien
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45	44	43	42	41	40	39	38	37	36	35	3 4	33	32	31	30	29	28	27	26	25	24	23	22	21	20
164	164.5	165	165	165.5	165.5	166	168	168	169.5	170	170	171	171	171.5	172	172	173	175.5	176	183	189.5	192.5	195	195	195
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Q9r0q8 mus musculu		Ö	Q03969 homo sapien	Q64449 mus musculu	Q22328 caenorhabdi			Q14538 homo sapien	homo	Q9nnx6 homo sapien		Q9vqx3 drosophila	Q9u6il drosophila	Q9j2m6 macaca mula		_	dros			Q9uj71 homo sapien	Q26423 carcinoscor		_	Q917e4 drosophila	Q9i7e3 drosophila

ALIGNMENTS

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PRESULTATION OF THE PRESULT OF THE P
                                              Q9UJ43; PRELIMINARY;
Q9UJ43; Q9UJ43;
Q1-MAY-2000 (TrEMBLrel. 13, C
Q1-MAY-2000 (TrEMBLrel. 13, L
Q1-MAR-2001 (TrEMBLrel. 16, L
L-SELECTIN PRECURSOR.
L-SELECTIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Fieger C.B.;
Thesis (1998), Freie Universtiaet Berlin, Fachbereich Chemie.
EMBL; AJ246000; CAB55488.1; -.
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TISSUE-HEMATOPOIETIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
TISSUE-HEMATOPOIETIC (B LYMPHOCYTE);
Fleger C.B.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
        SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NCBI_TaxID=9606; [1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Submitted (SEP-1999) to
        385 /
        385 I
43617 MW;
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Last annotation update)
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L-SELECTIN.; 1205F691BA638EF1 CRC64;
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EGF-like
               CHAIN
SEQUENCE
                                                    SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Oryctolagus cuniculus (Rabbit).
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Lagomorpha; Leporidae; Oryctolagus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Q28629;
01-NOV-1996 (TrEMBLrel. 01,
01-NOV-1996 (TrEMBLrel. 01,
01-MAR-2001 (TrEMBLrel. 16,
                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       L-SELECTIN PRECURSOR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     028629
                                                                                                                                                                                                                                                                                                                                                                                                                                                               NCBI_TaxID=9986;
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Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GKKSKRSMNDPY
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                domain;
               39
376 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
               AA;
                                                Glycoprotein; Lectin; Signal. 38 POTENTIAL.
             376
42346
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               Æ.
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Last sequence update)
Last annotation update)
L-SELECTIN.
; 59F6AD530F490947 CRC64;
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Pred. No. 1.6e-197;
l; Mismatches 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   376
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ACCOMENS OF THE PROPERTY OF TH
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                                                             Pfam; PF00008; EGF; 1.
Pfam; PF00059; lectin_c; 1.
Pfam; PF00084; Sushi; 2.
PRINTS; PF00343; SELECTIN.
PROSITE; PS00615; C_TYPE_LECTIN_1; 1
PROSITE; PS00041; C_TYPE_LECTIN_2; 1
PROSITE; PS00126; EGF_1; UNKNOWN_1.
PROSITE; PS01186; EGF_2; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Q63762 PRELIMINARY;
Q63762;
01-NOV-1996 (TrembLrel. 01, C1
01-NOV-1996 (TrembLrel. 10, L2
01-MAR-2001 (TrembLrel. 16, L2
LYMPHOCYTE MEMBRANE PROTEIN A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
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Best Local
  EGF-like domain; G
SEQUENCE 372 AA;
                                                                                                                                                                                                                                                                                                                                        Sackstein R., Meng L., Xu X.M., Chin Y.H.;
"Evidence of post-transcriptional regulation
expression in rat lymphoid cells.";
Immunology 85:198-204(1995).
EMBL; S79523; AAC60710.2; -.
HSSP; P14151; IKJB.
                                                  SMART;
                                                                                                                                                                                                                                                InterPro; IPR000436; -.
InterPro; IPR000561; -.
InterPro; IPR001304; -.
InterPro; IPR002396; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STRAIN=SPRAGUE-DAWLEY;
MEDLINE=95369821; PubMed=7543874;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
NCBI_TaxID=10116;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Rattus norvegicus (Rat).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   361
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 MIFPWKCQSTQRDLWNIFKLWGWTMLCCDFLAHHGTYCWTYHYSEKPMNWQRARRFCCRDN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GKKSKRSMND 370
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                                               SM00032; CCP; 1
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Glycoprotein.
A; 42471 MW;
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A.11.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Craniata; Vertebrata; Euteleostomi; Sciurognathi; Muridae; Murinae; Rat
  7DFD125610DD6E4A CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
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Matches
Query Match 43.1%;
Best Local Similarity 50.6%;
Matches 158; Conservative 4
                                                                                                                                                                                                 Pfam; PF00008; EGF; 1.

Pfam; PF000089; lectin_c; 1.

Pfam; PF00084; Sushi; 6.

PR.NTS; PR00343; SELECTIN.

PROSITE; PS00615; C_TYPE_LECTIN_1; 1

PROSITE; PS00041; C_TYPE_LECTIN_2; 1

PROSITE; PS00022; EGF_1; UNKNOWN_1.

PROSITE; PS01186; EGF_2; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        095509;
01-mAY-1999 (TrEMBLrel. 10, Created)
01-mAY-1999 (TrEMBLrel. 10, Last sequence update)
01-mAY-1999 (TrEMBLrel. 16, Last annotation update)
01-MAR-2001 (TrEMBLrel. 16, Last annotation update)
DJ780M13.1.3 (SELECTIN P (GRANULE MEMBRANE PROTEIN 140
CD62, GMP140)) (ISOFORM 3) (FRAGMENT).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SMART: SM00032; CCP; I.
EGF-like domain; Glycoprotein.
NON_TER 616 616
SEQUENCE 616 AA; 67735 MW;
                                                                                                                                                                                                                                                                                                                                                                                       InterPro; IPR000436; -.
InterPro; IPR000561; -.
InterPro; IPR001304; -.
InterPro; IPR002396; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens (Human).
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     095509
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NCBI_TaxID-9606;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GKKSQERMDDPY
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CGASGNWTYLEPICQVIQCMPLAAPDLGTMECSHPLANFSFTSACTFTCSEETDLIGERK
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRELIMINARY;
  47;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   35;
Score 911; DB 4; Pred. No. 3e-81; 7; Mismatches 107;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pred. No. 6.56
5; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Craniata; Vertebrata; Catarrhini; Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRT;
                                                                                                                35CD4BFADE61D724 CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                616
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                                           Length 616;
  Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Euteleostomi;
; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                KDA,
0,
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                                                                       Query Match
Best Local Similarity
Matches 157; Conserv
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O95507;
O95507;
O95507;
O1-MAY-1999 (TrEMBLrel. 10, Cast sequence update)
O1-MAY-1999 (TREMBLrel. 10, Last sequence update)
O1-MAR-2001 (TrEMBLrel. 16, Last annotation update)
O1-MAR-2001 (TREMBLrel. 16, Last annotation update)
DJ780M13.1.1 (SELECTIN P (GRANULE MEMBRANE PROTEIN 140 KDA, ANTIGEN DJ780M13.1.1 (SISCORM 1) (FRAGMENT).
                                                                                                                                                                     InterPro; IPRO00561; -.
InterPro; IPRO00561; -.
InterPro; IPRO00561; -.
InterPro; IPRO01304; -.
InterPro; IPRO01396; -.
InterPro; IPRO02396; -.
Pfam; PF00008; EGF; 1.
Pfam; PF00008; Sushi; 8.
PRINTS; PR00343; SELECTIN.
PROSITE; PS00615; C_TYPE_LECTIN_2; 1.
PROSITE; PS00615; C_TYPE_LECTIN_2; 1.
PROSITE; PS00022; EGF_1; UNKNOWN_1.
PROSITE; PS00032; CCP; 1.
SMART; SM00032; CCP; 1.
                                                                                                                                                                                                                                                                                                                                       Submitted (NOV-1998) to t
EMBL; AL022146; CAA18142.
HSSP; P16109; 1KJD.
                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens (Human).
Eukaryota; Metazoa; C
Mammalia; Eutheria; P
                                                                                                                                    SEQUENCE
                                                                                                                                                EGF-like domain; Glycoprotein.
                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                      NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                              Howden P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNHTCNCDVGYY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   QREQRVVEGISQLLCESALISELTNOKEVAAWTYHYSTKAYSWNISRKYCQNRYTDLVAI
QNKAEIEYLEKTLPFSRSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGDGEPNNKKNKED 127
                                       QSTQRDLWNIFKLWGWTMLCCDFLAHHGTYCWTYHYSEKPMNWQRARRFCRDNYTDLVAI 67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TINKPPQCLAAQCPPLKIPERGNMTCLHSAKAFQHQSSCSFSCEEGFALVGPEVVQCTASG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CVETYIKSPSAPGKWNDEHCLKKKHALCYTASCQDMSCSKQGECLETIGNYTCSCYPGFY
                        QRFQRVVFGISQLLCFSALISELTNQKEVAAWTYHYSTKAYSWNISRKYCQNRYTDLVAI 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    VWTAPAPVCKAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 IWSNPSPICQKL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKKTICESSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GPECEYVRECGELELPQHVLMNCSHPLGNFSFNSQCSFHCTDGYQVNGPSKLECLASGIW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      QSTQRDLWNIFKLWGWTMLCCDFLAHHGTYCWTYHYSEKPMNWQRARRFCRDNYTDLVAI
                                                                                                                                    740 AA;
                                                                       Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                             Chordata;
Primates;
                                                                                                                                    81095 MW;
                                                                                    43.0%;
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2.1;
                                                                       48;
                                                                                                                                                                                                                                                                                                                                                               EMBL/GenBank/DDBJ
                                                                       Score 909; DB 4;
Pred. No. 5.9e-81;
8; Mismatches 107
                                                                                                                                                                                                                                                                                                                                                                                                                              Craniata; Vertebrata; Euteleostomi; Catarrhini; Hominidae; Homo.
                                                                                                                                    3B5F70A45B1A3CD4 CRC64;
                                                                          107;
                                                                                                                                                                                                                                                                                                                                                                  databases
                                                                                               Length
                                                                        Indels
                                                                       0
                                                                       Gaps
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                                                                                                                                                                                                                                                                                                 Query Match
Best Local S
Matches 158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         InterPro; IPRO00436; -.
InterPro; IPRO00561; -.
InterPro; IPRO00561; -.
InterPro; IPRO01304; -.
InterPro; IPRO01304; -.
InterPro; IPRO01396; -.
Pfam; PF00008; EGF; 1.
Pfam; PF000059; Lectin_c; 1.
Pfam; PF000084; SELECTIN_8; 1.
PFAm; PF000084; SELECTIN_1; 1.
PROSITE; PS00615; C_TYPE_LECTIN_2; 1.
PROSITE; PS00615; C_TYPE_LECTIN_2; 1.
PROSITE; PS00021; EGF_1; UNKNOWN_1.
PROSITE; PS00032; EGF_1; UNKNOWN_1.
SMARP; SM00032; CCP; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Howden P.;
Submitted (NOV-1998) t
EMBL; AL022146; CAA181
HSSP; P16109; IKJD.
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01-MAY-1999 (TrEMBLrel. 10, Created)
01-MAY-1999 (TrEMBLrel. 10, Last sequence update)
01-MAR-2001 (TrEMBLrel. 16, Last annotation update)
01-MAR-2001 (TREMBLREL. 16, Last annotation update)
01780M13.1.2 (SELECTIN P (GRANULE MEMBRANE PROTEIN CD62, GMP140)) (ISOFORM 2) (FRAGMENT).
                                                                                                                                                                                                                                                                                                                                                                                                                                                EGF-like domain; Glycoprotein
NON_TER 740 740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens (Human).
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        095508
131 CVEIYIKSPSAPGKWNDEHCLKKKHALCYTASCQDMSCSKQGECLETIGNYTCSCYPGFY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NCBI_TaxID=9606;
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                                                                                          CVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNHTCNCDVGYY 187
                                                                                                                                                                                            QRFQRVVFGISQLLCFSALISELTNQKEVAAWTYHYSTKAYSWNISRKYCQNRYTDLVAI
                                                                                                                                                                                                                         QSTQRDLWNIFKLWGWTMLCCDFLAHHGTYCWTYHYSEKPMNWQRARRFCRDNYTDLVAI 67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          VWTAPAPVCKAI 322
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   IWSNPSPICQKL 319
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  THE PROCESS OF THE TRANSPORT OF THE TRAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKKTICESSG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GPECEYVRECGELELPOHVLMNCSHPLGNFSFNSQCSFHCTDGYQVNGPSKLECLASGIW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GPQCQLVIQCEPLEAPELGTMCTHPFGNFSFSSQCAFSCSEGTNLTGIEETTCGPFGNW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CVEIYIKSPSAPGKWNDEHCLKKKHALCYTASCQDMSCSKQGECLETIGNYTCSCYPGFY 190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQDWSCSGHGECVEIINNHTCNCDVGYY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      al Similarity
158; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                           740 AA; 81389 MW;
                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1998) to the 
CAA18143.1;
                                                                                                                                                                                                                                                                                            42.4%; Score 898; DB 4; L
50.6%; Pred. No. 7.2e-80;
tive 45; Mismatches 109;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EMBL/GenBank/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Craniata; Vertebrata;
Catarrhini; Hominidae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                           1D2E35E6D93745CE CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                740
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      databases
                                                                                                                                                                                                                                                                                                                                             Length 740;
                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    KDA,
                                                                                                                                                                                                                                                                                               0;
                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                               70
190
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      250
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      130
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Q28290
ID Q2
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                                                                                                                                                                                                   Query Match
Best Local Similarity
                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                            InterPro; IPR001304; -.
InterPro; IPR002396; -.
Pfam; PF00059; Lectin_c; 1.
Pfam; PF00084; sushi; 8.
PRINTS; PR00343; SELECTIN.
PROSITE; PS00615; C_TYPE_LECTIN_1; 1.
PROSITE; PS50611; C_TYPE_LECTIN_2; 1.
PROSITE; PS50041; C_TYPE_LECTIN_2; 1.
PROSITE; PS00128; EGF_1; UNKNOWN_1.
PROSITE; PS01186; EGF_2; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Q28290 PRELIMINARY;
Q28290;
Q1 NOV-1996 (TremBLrel. 01, C
01-NOV-1996 (TremBLrel. 01, L
01-MAR-2001 (TremBLrel. 16, L
                                                                                                                                                                                                                                                       CHAIN
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                          Manning A.M., Sanders W.E. Jr., Kukielka G.L., Dore M., Rosenbloom C.L., Hawkins H.L., Michael L.H., Entman M.L., Beaudet A.L., Anderson D.C.;
Submitted (MAR-1995) to the EMBL/GenBank/DDBJ databases.
EMBL, M88170; AAA63789.1; -.
HSSP; P16109; 1FSB.
InterPro; IPR000435; -.
InterPro; IPR000561; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Canis familiaris (Dog).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Carnivora; Fissipedia; Canidae;
                                                                                                                                                                                                                                                                                SIGNAL
                                                                                                                                                                                                                                                                                            NON_TER
                                                                                                                                                                                                                                                                                                                    SMART;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TISSUE-SPLEEN;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NCBI_TaxID=9615;
[1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CELL ADHESION
                                                                139
                                                                                        67
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                                                                                                               79
                                                                                                                                         7
                                   PGKWNDEPCWKRKRALCYTASCQDMSCSKQGECIETIGNYTCSCFPGFYGSECEYVRECG
                                                   AGKWNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNHTCNCDVGYYGPQCQLVIQCE 198
                                                                                                                                                                                                                                                                                                 T; SM00032; CCP; 1.
adhesion; EGF-11ke domain; Glycoprotein;
           PLEAPELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEETTCGPFGNWSSPEPTCQVIQ
                                                                                      VIPYYNSYYWIGIRKINDKWIWVGTKKPLTEEAENWAENEPNNKKNNQDCVEIYIKSLSA
                                                                                                   TLPFSRSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGDGEPNNKKNKEDCVEIYIKRNKD
                                                                                                                                        KLLCFSVLIFELIKQKEVAGWTYNYSTKAYSWNYSRIFCQKHYTDLVAIQNKKEIAYLND
                                                                                                                                                              KLWGWTMLCCDFLAHHGTYCWTYHYSEKPMNWQRARRFCRDNYTDLVAIQNKAEIEYLEK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GPQCQLVIQCEPLEAPELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEETTCGPFGNW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HWSAPLPTCEAI 322
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      IWSNPSPICQKL 319
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GPECEYVRECGELELPQHVLMNCSHPLGNFSFNSQCSFHCTDGYQVNGPSKLECLASGIW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TNKPPQCLAVQCQHLEAPSEGTMDCVHPLTAFAYGSSCKFECQPGYRVRGLDMLRCIDSG
                                                                                                                                                                                                                                                       754 AA;
                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            N.A.
MOLECULE
                                                                                                                                                                                                                                                       754
82303 MW;
                                                                                                                                                                                                   41.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                . 01, Last sequence update)
. 16, Last annotation update)
PRECURSOR (FRAGMENT).
                                                                                                                                                                                          46;
                                                                                                                                                                                         Score 884; DB
Pred. No. 1.7e
46; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Last
Last
                                                                                                                                                                                                                                                       CELL ADHESION MOLECULE.
; F0438EEAA521E773 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Created)
                                                                                                                                                                                                                                                                                POTENTIAL
                                                                                                                                                                                                                                                                                                                                                        --
                                                                                                                                                                                                     DB 6;
.7e-78;
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                                                                                                                                                                                                                 Length
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Smith C.W.,
                                                                                                                                                                                       0;
                                                                                                                                                                                       Gaps
             258
                                       186
                                                                                       126
                                                                                                                138
                                                                                                                                       66
                                                                                                                                                                 78
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В

187

DFDLPQHVLMNCSHPLGNFSFNSECSFYCTEGYELNGPSKLECLASGTWTNKPPRCVATQ 246

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2017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 2280017 22800017 22800017 22800017 22800017 22800017 22800017 22800017 22800017 22800017 228000017 22800017 22800
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                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRINTS; PRO0343; SELECTIN.

PROSITE; PS00615; C_TYPE_LECTIN_1; UNKNOWN_1.

PROSITE; PS50041; C_TYPE_LECTIN_2; 1.

PROSITE; PS00022; EGF_1; UNKNOWN_1.

PROSITE; PS01186 EGF_2; 1.

SMART; SM00032; CCP; 1.

EGF-1ke domain; Glycoprotein; Lectin; Selectin; SIGNAL 1

41

POTENTIAL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          InterPro;
InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    and E-selectin expression by por J. Immunol. 164:3309-3315(2000). EMBL; L39075; AAA79007.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-NOV-1996 (TREMBLIEL 01, 01-NOV-1996 (TREMBLIEL 01, 01-MAR-2001 (TREMBLIEL 16,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          InterPro; IPR002396;
Pfam; PF000008; EGF; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Rollins S.A.,
Submitted (OC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sus scrofa (Pig).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Q29097
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EMBL; AF163766; AAF43272.1; -. HSSP; P16109; 1FSB.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "TNF-alpha, IL-4, and IFN-gamma regulate differential expression of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Haskard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE-20171534; PubMed-10706724; Stocker C.J., Sugars K.L., Harari O.A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TISSUE-AORTA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mammalia; Eutheria; Cetartiodactyla;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          P-SELECTIN PRECURSOR.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NCBI_TaxID=9823;
                            191
                                                                         134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           247
                                                                                                                                                                                                                                                                                                                                                                     Local
                                                                                                                                                                74
                                                                                                                                                                                                           71
                                                                                                                                                                                                                                                      14
                                                                                                                                                                                                                                                                                                     11
CQLVIQCEPLEAPELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEETTCGPFGNWSSP
                                                                                                                                                                                                                                                                                              QRDLWNIFKLWGWTMLCCDFLAHHGTYCWTYHYSEKPMNWQRARRFCRDNYTDLVAIQNK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKKTICESSGIWSNPSPICQ 317
                                                                                                                 IYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNHTCNCDVGYYGPQ
                                                                                                                                                            KETAYLNDVIPYYSSYYWIGMRKINNKWTWVGTKKTLTQEAENWAKNEPNNESNNQDCVE
                                                                                                                                                                                   AEIEYLEKTLPFSRSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGDGEPNNKKNKEDCVE
                                                                                                                                                                                                                                                      QRVSFRTVQLLFFNALISDLMNQKGVAAWTYNYSTSAYSWNTSRVFCQRYFTDLVAIQNK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CPPLKTPEQGSMNCLHSVEAFQYQSSCHFSCEEGFALVGPEVVQCTASGMWTAAAPVCE 305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PF00008; EGF; 1.
PF00059; lectin_c; 1.
PF00084; sushi; 6.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              D.O.
                                                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          IPR000436; -.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       IPR001304; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                             42
646 AA;
                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             646
71127 MW;
                                                                                                                                                                                                                                                                                                                                                                   41.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6.2
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Last sequence update)
Last annotation updat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Birks C.W., Matis EMBL/GenBank/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                        P-SELECTIN.
; 3863F4AFE09F0BB6 CRC64;
                                                                                                                                                                                                                                                                                                                                                                   Score 876.5; DB Pred. No. 8e-78;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 porcine aortic
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Best Local S
Matches 155
                                                                                                                                                                                                                                                                                                           Pfam; PF00008; EGF; 1.

Pfam; PF00008; Lectin_G; 1.

Pfam; PF00084; Sushi; 6.

PRINTS; PR00343; SELECTIN

PROSITE; PS00615; C_TYPE_LECTIN_1; 1

PROSITE; PS50041; C_TYPE_LECTIN_2; 1

PROSITE; PS50041; C_TYPE_LECTIN_2; 1

PROSITE; PS00022; EGF_1; UNKNOWN_1.

SMART; SM00032; CCP; 1.
                                                                                                                                                                                                                                                                                                                                                                                                 InterPro; IPR000561; -.
InterPro; IPR001304; -.
InterPro; IPR002396; -.
Pfam; PF00008; Fcc.
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Q28657;
01-NOV-1996
01-NOV-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A. Vora D.K., Fang Z., Liv Territo M.C., Berliner
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eut
Mammalia; Eutheria; Lagomorpha; Leporidae; Oryctolagus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Oryctolagus
                                                                                                                                                                                                                                                                                         EGF-like domain; Glycoprotein; SEQUENCE 649 AA; 71755 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EMBL; U39446; AAA81385.1; HSSP; P16109; 1FSB.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Submitted
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                                     182
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            TTCGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGK
                                                                                              PNNKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNH 178
                                                                                                                               IFPWKCQSTQRDLWNIFKLWGWTMLCCDFLAHHGTYCWTYHYSEKPMNWQRARRFCRDNY
                                     TCSCYPGFYGPECEYVREWASLDLPQHVHMNCSHPLGNFSFNSHCSFHCADGYALNGPSE
                                               TCNCDVGYYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEE
                                                                                  PNNKRNNQDCVETYIKSLSAPGKWNDEPCWKRKRALCYRASCQDMSCSKQGECIETIGNY
                                                                                                                                                                              IWNWR----FQRAVFRTVQLLCFSVLIFEVINQKEVSAWTYHYSNKTYSWNYSRAFCQKYY
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                                                                                                                                                                                                                               155;
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                                                                                                                                                                                                                                         Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Liva S.M., Parhami F., ner J.A.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            us (Rabbit).
Chordata; Craniata; Vertebrata; Euteleostomi;
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                                                                                                                                                                                                                                         Score 860.5; DB Pred. No. 3e-76;
                                                                                                                                                                                                                                                                                         Lectin.
ECCD8C847B84BC31 CRC64;
                                                                                                                                                                                                                              Mismatches
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Length
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RESULT Q28982
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Best Local
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Q28982;
Q1-NOV-1996
SEQUENCE FROM N.A.
MEDLINE=97075911; PubMed=8918234;
MEDLINE=97075911; PubMed=8918234;
Contamedia V.,
                                                               Sus scrofa (Pig).
Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                       NCBI_TaxID=9823;
                                                                                                    01-MAR-2001
E-SELECTIN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TISSUE-ENDOTHELIUM;
Zheng L., Shi Y., Wu H., Zhang G.;
Zheng L., Shi Y., Wu H., Zhang G.;
"Cloning and sequencing of beagle E-selectin g
comparison with other species.";
Submitted (JUL-2000) to the EMBL/GenBank/DDBJ
EMBL; AF287257; AAG10039.1; -
Lectin; Selectin.
SEQUENCE 609 AA; 66073 MW; 41E62D1F4D23881
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Canis familiaris (Dog).

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eutele
Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.
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                                                                                                                                                                                                                        FSFTSACTFICSEGTELIGKKKTICESSGIWSNPSPICQ
                                                                                                                                                                                                                                                                  FSSQCAFSCSEGTNLTGIEETTCGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLAS 278
                                                                                                                                                                                                                                                                                                            SCQPWSCSGHGECVEIINNHTCNCDVGYYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFS 218
                                                                                                                                                                                                                                                    YNSSCFVSCDKGYLPSSTEATQCTSTGEWSASPPACNVVECSALTNPCHGVMDCLQSSGN
                                                                                                                                                                                                                                                                                                TWIGTQKLLTEEAKNWAPGEPNNKQNDEDCVEIYIKRDKDSGKWNDERCDKKKLALCYTA 142
                                                                                                                                                                                                                                                                                                                                                       TWVGINKSLTEEAENWGDGEPNNKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTA 158
                                                                                                                                                                                                                                                                                                                                                                                      WSYNASTEAMTFDEASTYCQQRYTHLVAIQNQEEIKYLNSMFSYTPTYYWIGIRKVNKKW
                                                                                                                                                                                                                                                                                                                                                                                                                                       145;
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                                                                                                            (TrEMBLrel. 01,
(TrEMBLrel. 01,
(TrEMBLrel. 16,
                                                                                                                                                       PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
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                                                             Chordata; Craniata; Vertebrata; Cetartiodactyla; Suina; Suidae;
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                                                                                                         Last sequence update)
                                                                                                                                                                                                                                                                                                                                                                                                                                     43;
                                                                                                                                  Created)
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Pred. No. 3.1e
13; Mismatches
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         Natarajan
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J.1e-76;
91;
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Best Local Similarity 36.1
Matches 159; Conservative
                                                                                                                                                                           Q9ES77; PRELIMINARY;
Q9ES77;
01-MAR-2001 (TIEMBLIel. 16, C
01-MAR-2001 (TIEMBLIEL. 16, L
01-MAR-2001 (TIEMBLIEL. 16, L
SEQUENCE FROM N.A. STRAIN=C3H/HENSIC;
                                                                                   Mus musculus (Mouse).
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
                                                                    NCBI_TaxID=10090;
                                                                                                                                                            POLYDOM PROTEIN PRECURSOR.
                                                                                                                                                                                                                                                                                                                                                                                                 441
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PROSITE; PS00615; C_TYPE_LECTIN_1;

PROSITE; PS50041; C_TYPE_LECTIN_2;

PROSITE; PS00022; EGF_1; UNKNOWN_1.

PROSITE; PS01186; EGF_2; 1.

SMART; SM00032; CCP; 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pfam; PF00059; lectin_c; 1. Pfam; PF00084; sushi; 4.
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EMBL; U37521; AAC4680.1; -.
HSSP; P16581; LESL.
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Last sequence update)
Last annotation updat
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                                                                              Craniata; Vertebrata; Sciurognathi; Muridae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 815.5; DB 6; Pred. No. 5.7e-72; 6; Mismatches 109;
                                                                                                                                                                                                                                                                            PRT;
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97DC5D70BF115944 CRC64;
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                                                                                                           Euteleostomi;
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                                                                                   Murinae;
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RESULT QPYYR4
ID VYR4
ID Q99
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DT 01
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RA Adams M.D., Celniker S.E., Richards S. Ashburner M., Henderson S.N.,
RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
RA Barandon R.C., Rogers Y.-H.C., Blazed R.G., Champe M., Pfeiffer B.D.,
RA Barid J.F., Agbayani A., An H.-J., Andrews-Pfannkoch C., Baldwin D.,
RA Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
Ra Beeson K.Y., Benos P.V., Bernan B.P., Bhandari D., Bolshakov S.,
RA Burtis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
Charry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Dev I., Dietz S.M.,
Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
Durbin K.J., Evangelista C.C., Ferraz C., Ferriera S., Fleischmann W.,
RA Dodson K., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
RA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
RA Hostin D., Houston K.A., Howland T.J., Wei M.-H., Ibegwam C.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
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Best Local
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O9VYR4;
O1-MAY-2000 (TYEM
O1-MAY-2000 (TYEM
O1-MAR-2001 (TYEM
FW GENE PRODUCT.
FW OR CG1500.
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SIGNAL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Drosophila melanogaster (Fruit fly).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
Ephydroidea; Drosophilidae; Drosophila.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE
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EMBL; AF206329; AAG32160.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=20196006; PubMed=10731132;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STRAIN-BERKELEY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.
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28.4%;
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Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -AFTYGSKVVYRCDKGYTLSGDEESACLASGSWSHSSP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Created)
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Pred. No. 3.
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3.8e-15;
hes 94;
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Α.,
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RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
RA Mount S.M., Woy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
RA Nelson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacleb J.M.,
RA Helson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacleb J.M.,
RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
RA Reinert K., Remington K., Sannders R.D.C., Scheeler F., Shen H.,
RA Shue B.C., Siden-Klamos I., Simpson M., Skupski M.P., Smith T.,
RA Spler E., Spradling A.C., Stapleton M., Skupski M.P., Smith T.,
RA Spler E., Spradling A.C., Stapleton M., Strong R., Sun E.,
RA Svirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
Wang Z.-Y., Wassarman D.A., Welnstock G.M., Welssenbach J.,
Wang Z.-Y., Wassarman D.A., Welnstock G.M., Welssenbach J.,
RA Williams S.M., Wooddag T., Worley K.C., Wu D., Yang S., Yao Q.A.,
RA Williams S.M., Wooddag T., Worley K.C., Wu D., Yang S., Yao Q.A.,
RA Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
RA Zheng X.H., Zhong F.N., Rubin G.M., Zhou X., Zhu X., Smith H.O.,
RA Glbbs R.A., Myers E.W., Rubin G.M., Venter J.C.;
"The genome sequence of Drosophila melanogaster.";
Science 287:2185-2195(200).
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Best Local S
Matches 86
                                                                                                                                                   P91658
P91658;
01-MAY-1997 (
01-MAY-1997 (
01-MAR-2001 (
FURROWED.
FW OR CG1500.
                            Drosophila melanogaster (Fruit fly).
Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
Pterygota; Neoptera; Endopterygota; Diptera; Brachycera; Musc
Ephydroidea; Drosophilidae; Drosophila.
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SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          KIGGI----WTWVGTNKSLTEEAENWGDGEPNNKKNKEDCVEIYIKRNKDAGK---WNDD 145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SM00032;
ICE 1124
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25.5%;
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Pred. No. 1.3e-15;
0; Mismatches 122
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                                                                   Brachycera; Muscomorpha;
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Best Local Similarity
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-InterPro; IPRO01304;
-InterPro; IPRO01304;
-InterPro; IPRO0059; lectin_c; 1.

Pfam; PF00084; sushi; 10.

PFOSITE; PS00615; C_TYPE_LECTIN_1; UI
PROSITE; PS00615; C_TYPE_LECTIN_2; 1

SMART; SM00032; CCP; 1.
                                                                                                                                            Wilkinson
Submitted
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Q18849; O1-NOV-1996 (TrEMBLrel. 01,
01-NOV-1996 (TrEMBLrel. 01,
01-MAR-2001 (TrEMBLrel. 16,
Wilson R., Ainscough R., Anderson K., Baynes C., Berks M.,
Bonfield J., Burton J., Connell M., Copsey T., Cooper J., Coulson A
Craxton M., Dear S., Du Z., Durbin R., Favello A., Fulton L.,
Gardner A., Green P., Hawkins T., Hillier L., Jier M., Johnston L.,
Jones M., Kershaw J., Kirsten J., Laister N., Latreille P.,
Lightning J., Lloyd C., Mcmurray A., Mortimore B., O'Callaghan M.,
Parsons J., Percy C., Rifken L., Roopra A., Saunders D., Shownkeen
                                                                                                MEDLINE=94150718; PubMed=7906398;
                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                       SEQUENCE FROM N.A.
                                                                                                                                                                                                Eukaryota; Metazoa; Nemato
Rhabditidae; Peloderinae;
NCBI_TaxID=6239;
                                                                                                                                                                                                                                                          C54G4.4 PROTEIN.
C54G4.4.
                                                                                                                                                                                                                                          Caenorhabditis elegans
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SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             KIGGI----WTWVGTNKSLTEEAENWGDGEPNNKKNKEDCVEIYIKRNKDAGK---WNDD 145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      85;
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25.2%;
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EMBL; Z75533; CAA99822.1;
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Thierry-Mieg J., Thomas K., Vaudin M., Vaughan K., Waters
Watson A., Weinstock L., Wilkinson-Sproat J., Wohldman P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE
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InterPro; IPR001304; -
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                            301
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                            TICESSGIWSNPSPIC 316
                                                                                     CGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKK
                                                                                                                                                                                                                                         DWPGQPSPVPSASEAVLLARPLEWKWVPASQTA--WNSFLCQS-KPKFC-----TSP
LMCGDRGEWQPATPFC
                                                                                                                                                IQCEPLEAPELGTMDCTHPFGNFS-----FSSQCAFSCSEGTNLTGIEETT-----
                                                                                                                                                                             GVGEATKVTFSSHSYAIGTLCFYSCDSGYDLHGIRQRECAENGRWTGSIPNCYRKSCGAV
                                                                                                                                                                                                                                                                       ---GEPNNKKNKEDCVEI-----YIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCS 166
                                                                                                                                                                                                                                                                                                       STLPLRIDDSTRRGLRSALSASSSAKAFYWIGASSSMTEWRWV
                                                                                                                                                                                                                                                                                                                                                                 VSPWQCAQSQMEVVGVF---------GGMCYAASRDEQ-TDWLGAQRKCLDRG
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                                                          CQSDGIWSGSEPTCELVDC---GRPPL-IANGRVDVESSTFESAANYTCHQGFRLIGPES
                                                                                                                     RQWK - - - -
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                                                                                                                                                                                                                                                                                                                                  TDLVAIQNKAEIEYLEKTLPES - - - RSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGD - - 116
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Pred. No. 1.3e-14;
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Search completed: October 13, 2001, 03:02:16 Job time: 424 sec

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score greater and is derived Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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AAT14723	AA024987	AAQ23623	AAQ12118	AAQ43154	AAV19012	AAT30003	AAT05869	AAQ92802	AAQ44243	AAV08321	ID	
Human Leu8 antigen	Sequence encoding	Human lymphocyte h	Sequence encoding	Human Lymphocyte H	Homo sapiens lymph	_	Human LHR cDNA. H	Human LHR cDNA. H	HuLHR DNA. Homo s	-	Description	

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AAQ38840	AAQ71009	AAV19013	AAQ05542	AAQ12119	AAV08322	AAT30004	AAT05870	AAQ92803	AAQ44244	AAQ43155	AAQ24988	AAQ23624	AAQ71015	AAF21442	AAA35030	AAA35005	AAF21152	AAF21127	AAF20913	AAA34791	AAQ22500	AAA50632	AAQ31767	AAQ05871	AAQ37304	AAT72270	AAQ38839	AAQ35142	AAQ71006	AAV81217	AAV63460	118	AAA50596
Sequence of exons	lyam-1 gene exon I	Mus musculus lymph	Sequence encoding	Sequence encoding	Mouse lymphocyte h	lym	Mouse LHR cDNA. M	Mouse LHR cDNA. M	MLHR DNA. Mus mus	Murine Lymphocyte	Sequence encoding	Murine lymphocyte	lyam-1 gene exon x	Human ELAM-1 polyn	Human adenosine re	Human adenosine re	Human low adenosin	Human low adenosin	Human ELAM-1 polyn	Human adenosine re	⋍	Human T-cell speci	Human LAM-1. Homo	Sequence encoding	LAM-1 cDNA from pL	Human lymphocyte-a	nce of LAM-		ectin	Human Leu8 antigen		es T l	Human T-cell speci

ALIGNMENTS

RESULT AAV08321

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AAV08321;

AAV08321 standard;

DNA;

2259 ВP

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23-FEB-1989;
31-OCT-1991;
06-MAY-1993;
10-AUG-1995;
                                                                                                                                                                                                   Lymphocyte homing receptor; LHR; lymphocyte cell-surface glycoprotein; lymphocyte binding; endothelium; graft rejection; inflammation; therapy; arthritis; autoimmune disease; lymphoma metastasis; lymphocyte accumulation; human; ss.
WPI; 1999-034122/03.
                    Lasky LA,
                                                                                                                                                             US5840844-A.
                                                                                                                                                                                                                                                       Human lymphocyte homing receptor coding sequence.
                                                                                                                                                                                                                                                                           02-FEB-1999 (first entry)
                                                                                                                      10-AUG-1995;
                                                                                                                                                                                Homo sapiens.
                                      (GETH ) GENENTECH INC.
(REGC ) UNIV CALIFORNIA.
                                                                                                                                          24-NOV-1998.
                    Rosen SD,
                                                                   89US-0315015.
91US-0786149.
93US-0059029.
95US-0513278.
                                                                                                                      95US-0513278
                    Singer MS,
                     Stachel SE;
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P-PSDB; AAW73264.

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Matches 2259;
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Best Local Similarity
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661 ACACCTGCAACTGTGATGTGGGGTACTATGGGCCCCAGTGTCAGCTTGTGATTCAGTGTG
                                                       601
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                                                              CTTCTTGCCAGCCCTGGTCATGCAGTGGCCATGGAGAATGTGTAGAAATCATCAATAATC
                                                                                                                            atgcaggcaaatggaacgatgacgcctgccacaaactaaaggcagccctctgttacacag
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                                                                                                                                                                                                                                                                                                 ggacgtgggtgggaaccaacaaatctctcactgaagaagcagagaactggggagatggtg
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ACACCTGCAACTGTGATGTGGGGTACTATGGGCCCCAGTGTCAGCTTGTGATTCAGTGTG
                         AGCCCAACAACAAGAAGAACAAGGAGGACTGCGTGGAGATCTATATCAAGAGAAACAAAG
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16-DEC-1991;
08-DEC-1992;
21-JAN-1994;
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                                                                                                ATGCAGGCAAATGGAACGATGACGCCTGCCACAAACTAAAGGCAGCCCTCTGTTACACAG
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                                                                                      atgcaggcaaatggaacgatgacgcctgccacaaactaaaggcagccctctgttacacag
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23-FEB-1989;
16-DEC-1991;
08-DEC-1992;
21-JAN-1994;
                                                                                                                                                                                                                               Immunoglobulin; transmembrane receptor; adhesion; targetting; diagnosis; therapy; drug delivery; antiviral; neuromodulator; immunomodulator; cell adhesion; graft rejection; inflammation;
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          J
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89US-0315015.

91US-0808122.

92US-0986931.

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A hybrid immunoglobulin chain comprising the ligand binding site of a single transmembrane receptor without an active transmembrane region; fused at its C-terminus with the N-terminus of an immunoglobulin constant region. The receptor is not a member of the immunoglobulin super family, nor a multiple subunit polypeptide encoded by discrete genes. The hybrid immunoglobulin chain combines the adhesion/targetting of a ligand binding partner (LBP) with the effector functions of immunoglobulin and can bind to and/or activate more than one ligand. It can be used diagnostically for the in vitro assay of LBP and their targets; or therapeutically to deliver LBP such as toxins, enzymes, growth factors to particular deliver more than one ligand as a sativital and constant and like the such as toxins, enzymes, gravity factors to particular deliver
                                                       Typical applications are as antiviral, neuromodulating and immunomodulating agents, or as modulators of cell adhesion (e.g. in treating graft rejection; inflammation; metastasis of lymphoma etc.) The immunoglobulin component increases plasma half life and facilitates purification while deletion of the transmembrane region facilitates recovery, improves aqueous solubility and removes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Nucleic acid encoding hybrid immunoglobulin comprising the ligand binding site of a receptor fused to Ig constant region - useful for diagnosis and treatment e.g. of inflammation
                                               potentially
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CAGTTTTCTTGCAGATCAAATTTCACGTC	AAATTTGATACATATGTGA	521	Qy
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rtccttcagcttccatttcgcccctcatttatccctcaac	tttctacccga	38	Дb
TTCCTTCAGCTTCCATTTCGCCCCCTCATTTATCCCTCAACC 1440	ATTTCTACCCGACCAACAG	38	Qy
:Cctacgtcaaacatgaagtgtgttccttcagtgcatctgggaag 1380	ttgtgtggtggcacctcc	1321	DЬ
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CCTTCAGCTGCTCTGAAGGAACAAACTTAACTGGGATTC	GCTTCAGCTCACA	781	Qy
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AGCTGGGTACCATGGACTGTACTCACCCCTTTGGAAACTTCA 7	AGCCTTTGGAGG	721	Qy
t9999tactat999ccccagtgtcagcttgtgattcagtgtg 7	acacctgcaactgtgatg	661	ДD
TGGGGTACTATGGGCCCCAGTGTCAGCTTGTGATTCAGTG	ACACCTGCAACTG	661	Qy
6	cttcttgccagcc	601	ДD
AGTGGCCATGGAGAATGTGTAGAAATCATCAATA	CTTCTTGCCAGCC	0	Qy
atgacgcctgccacaactaaaggcagccctctgttacacag 6		541	Db
ATGACGCCTGCCACAAACTAAAGGCAGCCCTCTGTTACA	ATGCAGGCAAATG	541	Qy

Query Match Best Local :

Local Similarity

Sequence

2259

BP; 635 A;

516 C; 489

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619 T; 0 other;

DB 17; Length 2259;

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19-DEC-1991;
08-DEC-1992;
21-JAN-1994;
26-MAY-1995;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The sequence is that encoding a human lymphocyte homing receptor (LHR) which may be used in the construction of a chimeric molecule comprising an LHR fused at its C terminus to the N terminus of an immunoglobulin constant region. This can be used for the prevention of lymphocyte attachment to endothelial cells. Such a method may be used for preventing organ or graft rejection, for treating inflammatory disorders, e.g. rheumatoid arthritis or other autoimmune diseases, for controlling lymphoma metastasis and for treating conditions in which there is an accumulation of lymphomatographic conditions in which there is an accumulation of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Prevention of lymphocyte attachment to endothelial cells - using chimeric molecule comprising lymphocyte homing receptor and
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agcccaacaacaagaagaacaaggaggactgcgtggagatctatatcaagagaaacaaag
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transplant rejection; ss.
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DB; AAR37960.
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                                                              CTTCTTGCCAGCCCTGGTCATGCAGTGGCCATGGAGAATGTGTAGAAATCATCAATAATC
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                                                   cttcttgccagccctggtcatgcagtggccatggagaatgtgtagaaatcatcaataatc
                                                                                                   atgcaggcaaatggaacgatgacgcctgccacaaactaaaggcagccctctgttacacag
                                                                                                                ATGCAGGCAAATGGAACGATGACGCCTGCCACAAACTAAAGGCAGCCCTCTGTTACACAG
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                                                                                                                               AAATTTGATACATATGTGAATATGGACTCAGTTTTCTTGCAGATCAAATTTCACGTCGTC
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CC murine Mel 14 antigen cDNA clone. 12 positive plaques were isolated CC and those with the largest EcoRI insert were sequenced. The 2.2 kb CC clone encodes an open reading frame of 372 amino acids. The human CC LHR is 83 percent homologous with the murine LHR sequence and CC contains regions encoding a carbohydrate binding domain, an EGF-like CC domain, a complement binding domain and a transmembrane domain. CC cells transformed by the hLHR DNA are used to produce LHR (which CC mediates binding of lymphocytes to the endothelium of lymphoid CC tissue). LHR or its variants are useful as reagents for assaying CC LHR or anti-LHR antibodies, to purify the antibodies, as immunogens, CC and therapeutically to compete with normal binding of lymphocytes CC and therapeutically to compete with normal binding of lymphocytes CC rheumatoid arthritis or other autoimmune diseases); for control of CC lymphocyte metastasis, and to treat conditions associated with accumulation of lymphocytes). Derivs. and variants of LHR may be CC produced having modified properties, e.g. increased activity, longer CC plasma half-life, reduced side effects and better aq. solubility.
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Sequence 2260 BP; 636 A; 518 C; 487 G; 619 T; 0 other;

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Best Local Similarity 99.7
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Db Db

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RESULT 11
AAT14723
                                                                       01-DEC-1992;
25-FEB-1988;
13-JUL-1989;
13-JUL-1990;
18-OCT-1993;
       WPI; 1996-200279/20
P-PSDB; AAR91442.
                                    Aruffo
                                                                                                                                                                                                                                                                              Cell surface antigen; cloning; ir therapy; diagnosis; vector; COS;
                                                                                                                                                                                                                                                                                                                                                                                                                  2221
                                                                                                                               25-FEB-1988;
                                                                                                                                                  09-APR-1996
                                                                                                                                                                    US5506126-A.
                                                                                                                                                                                                                 misc_feature
                                                                                                                                                                                                                                                                                                              Human
                                                                                                                                                                                                                                                                                                                               31-OCT-1996
                                                                                                                                                                                                                                                                                                                                                                  AAT14723
                                                    (GEHO)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                            CTGCCCCCAGAACTTTTATCCACTTACCTAGATTCTACATATTCTTTAAATTTCATCTCA
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                                                                                                                                                                                                                                                                                                             Leu8
                                  Ą,
                                                      GEN
                                                                                                                                                                                                                                                                                                                                                                  standard; cDNA; 2350
                                    Seed
                                                                                                                                                                                                                                                                                                          antigen cDNA (major transcript).
                                                      HOSPITAL
                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                      92US-0983647.

88US-0160416.

89US-0379076.

90US-0553759.

93US-0139273.
                                                                                                                                                                                                      Location/Qualifiers
50..1207
/*tag= a
1079..1514
/*tag= b
                                                                                                                               88US-0160416
                                   В;
                                                                                                                                                                                     /note= "bases 1079-1514 are deleted shorter cDNA clone"
                                                      CORP
                                                                                                                                                                                                                                                                                                                                                                  ΒP
                                                                                                                                                                                                                                                                               immunoselection; immu
S; Leu9; T-lymphocyte;
                                                                                                                                                                                                                                                                                        immunotherapy;
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Best Local S
Matches 2179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2 cDNA clones encoding Leu8 determinants (AAR91442 and AAR91443) were isolated from a human T-cell library using a novel immunoselection cloning method. The longer insert (AAT14723) contained 2,350 residues, while the shorter lacked 436 internal residues but was otherwise identical. Dot blot hybridisation of a fragmented human T cell genome showed a pattern consistent with a single copy gene. A major transcript of 2.4 kb was present in peripheral blood mononuclear cells (PBMC), tonsillar B cells, and several lymphocytic cell lines, and a minor transcript of 2.0 kb in PBMC, Jurkat and HSB-2 leukaemic T-cell lines. Leu8 antigens can be obtd. for diagnostic and therapeutic use.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Cloning of cDNA encoding cell surface antigen - useful for isolation of diagnostic and therapeutic proteins % \left( 1\right) =\left\{ 1\right\} 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 2350 BP; 679 A; 520 C; 490 G; 661 T; 0 other;
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mes 2179; Conserv
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                          AACTAGAGAAGGACCAAGCAAAGCCATGATATTTCCATGGAAATGTCAGAGCACCCAGAG
CCCCTTTGGAAACTTCAGCTTCAGCTCACAGTGTGCCTTCAGCTGCTCTGAAGGAACAAA
                                                                                                                                                                                                                                                                                     GAACTGGGGAGATGGTGAGCCCAACAACAAGAAGAACAAGGAGGACTGCGTGGAGATCTA
                                                                                                                                                                                                                                                                                                                                               GAAGATAGGAGGAATATGGACGTGGGTGGGAACCAACAATCTCTCACTGAAGAAGCAGA 463
                                                                                                                                                                                                                                                                                                                                                                                                         AATTGAGTATCTGGAGAAGACTCTGCCCTTCAGTCGTTCTTACTACTGGATAGGAATCCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GGCTAGAAGATTCTGCCGAGACAATTACACAGATTTAGTTGCCATACAAAACAAGGCGGA
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                                                                                       agaaatcatcaataattacacctgcaactgtgatgtggggtactatgggccccagtgtca
                                                                                                     AGAAATCATCAATAATCACACCTGCAACTGTGATGTGGGGGTACTATGGGCCCCCAGTGTCA
                                                                                                                                                 agccctctgttacacagcttcttgccagccctggtcatgcagtggccatggagaatgtgt
                                                                                                                                                             AGCCCTCTGTTACACAGCTTCTTGCCAGCCCTGGTCATGCAGTGGCCATGGAGAATGTGT
                                                                                                                                                                                                                        TATCAAGAGAAACAAAGATGCAGGCAAATGGAACGATGACGCCTGCCCACAAACTAAAGGC
                                                                                                                                                                                                                                                                                                                               gaagataggaggaatatggacgtgggtgggaaccaacaaatctctcactgaagaagcaga
                                                                                                                                                                                                                                                                                                                                                                                        aattgagtatctggagaagactctgcctttcagtcgttcttactactggataggaatccg
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                                                                                                                                                                                                          tatcaagagaaacaaagatgcaggcaaatggaacgatgacgcctgccacaaactaaaggc
                                                                                                                                                                                                                                                                    gaactggggagatggtgagcccaacaacaagaagaacaaggaggactgcgtggagatcta
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        94.28;
99.38;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 2127.8;
Pred. No. 0;
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QY

Db 724 cctttbggaaacttaggctcaaggtgggcctcaggtggcctcagggaaccagg 783 Oy 824 CTTAACTGGGATTGAACAACCACTTTGGACACTTGGACATTGGACACTGGTCAACCC 883 P84 cttaactgggsttggaagaaccacctgtggaccattgggaactgggcattcalcagaacc 843 Oy 884 AACCTGTCAACTGATTCATTGGACACTGTTGCAATCATTGGAATCTGGGATTCATGGACTGATTGGACACTGGATTGGACACTGGATTGGACACTGGATTGGACCTGATTGGACACTGATTGGACACTGATTGGACACTGATTGGACACTGATTGGACACTGATTGGACACTGATTGGACACTGATTGGACACTGATTGGACACTGATTGGACACTGATTGGACACTGATTGGACACTGATTGGACACTGATTGGACACTGATTGGACACTGATTGGACACACTGTTGAACCACTTTGGAACCATTTGGACACTGATTGGACACTGATTGGACACTGATTGGACACACTGTGGAATCTTGGACACACTGTGGAATCATTGGACACACTGTGGAATCTGGACACACTTTGTGAACCATTTGGACACACTGTGGAATCTGGACACACTTTGGACACACTTTGGACACACTTTGGACACACTTTGGACACACTTTGGACACACTTTGGACACACAC
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Example 14; Column 69-72; 75pp; English

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                                                                                                                             25-FEB-1988;
13-JUL-1989;
23-MAR-1990;
13-JUL-1990;
                            Isolated nu
useful for
                                                                    WPI;
                  infections or
                                                         P-PSDB;
                                                                                                                                                                    01-DEC-1992;
                                                                                                                                                                                       28-OCT-1998;
                                                                                                                                                                                                                              US6111093-A
                                                                                                          (GEHO)
                                                                                                                                                                                                           29-AUG-2000
                                                                                                                                                                                                                                                                                                                                                                      Human T-cell
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                                                                                                                                                                                                                                                                                                                      amyloidosis;
                                                                                                                                                                                                                                                                                                                                                 Leu8; cell surface antigen;
                                                                                                                                                                                                                                                                                                                                                                                         19-DEC-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2163 ctttaaatttcatctcaggcctccctcaaccccac 2197
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                                                                                                                                                                                                                                                                                                                             Immunodiagnosis; diagnosis;
Immune disorder; infection;
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                                                        2000-586382/55
)B; AAY96138.
                                                                                                                                                                                                                                                                                         sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CTTTAAATTTCATCTCAGGCCTCCCCTCAACCCCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                aatgctctcctttcccctgcccccagaccttttatccgacttacctagattctacatatt
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                                                                                                          GEN
             nucleic acid molecule encoding the CD19 cell surface antigen, or immunodiagnosis and immunotherapy of immune-mediated ns or disorders, e.g. asthma, immune-complex disease, parasiti
                                                                                      H,
                                                                                                          HOSPITAL CORP.
                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                     specific
                                                                                                                            92US-0983647.

88US-0160416.

89US-0379076.

90US-0498809.

90US-0553759.
                                                                                      Seed
                                                                                                                                                                                       98US-0181612
                                                                                                                                                                                                                                                         Location/Qualifiers 50..1207
                                                                                                                                                                                                                                                                                                                                                                                                                               cDNA;
                                                                                      ₽,
                                                                                                                                                                                                                                                                                                                     sclerosis;
                                                                                                                                                                                                                                                                                                                                                                     Leu8
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                                                                                                                                                                                                                                                                                                                                                                   antigen
                                                                                                                                                                                                                                                                                                                          immunotherapy; gene therapy; asthma; immune-complex disease;
                                                                                                                                                                                                                                                                                                                                                 human;
                                                                                                                                                                                                                                                                                                                   inflammation;
                                                                                                                                                                                                                                                                                                                                              immunoselection; panning;
                                                                                                                                                                                                                                                                                                                                                                     CDNA
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                                                                                                                                                                                                                                                                                                                 antiinflammatory;
              parasitic
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the invention. The method, designed to isolate cell surface antigen (CSA) nucleic acids, is based upon transient expression of a CSA in enkaryotic cells and physical selection of cells expressing the antigen by adhesion to (panning on) an antibody-coated substrate such as a culture dish. CSA nucleic acids isolated by the method of the invention, and the proteins they encode, are useful for immunodiagnostic and immunotherapeutic applications, including the diagnosis and treatment of immune mediated by treatment of immune mediated dispressions and treatment of immune mediated infections, diseases, and disorders in animals, including humans. These disorders include asthma, immune-complex disease.
                                                                  asthma, immune complex disease, amyloidosis, parasitic diseases or multiple sclerosis. The ability to interfere with the binding of Leu8-T-cells to antigen presenting cells, or the ability to cause such binding to occur on surfaces other than lymphocyte cells, can be useful in diagnostics and therapy. The level of activated Leu8-T-cells relative to resting Leu8+ cells could serve as a measure of immune response to a particular antigen. Modification of the specificity of the extracellular domain of Leu8, which mediates adhesion to specific endothelial cells of lymph nodes, could serve to regulate the homing potential of resting T cells. Soluble forms of Leu8 could act as antiinflammatory agents by reducing lymphocyte
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Query Match Best Local Similarity

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Query Match
Best Local Similarity
Matches 2178; Conserv
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                                                                                              GCTTGTGATTCAGTGTGAGCCTTTGGAGGCCCCAGAGCTGGGTACCATGGACTGTACTCA
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P 64

2y 2y 2y 2y 2b DP QA Db Qy

DP GA

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Qy Db	Оу	Qу	Qy Db	ДУ	Qу	ОУ	Оy	Оy	Оy	dg Qy	Qу ДЪ	ДУ	Дy	Фр	рь	Ωу	Qy Db
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CTTCAGGCCTCCCCACCTTCTTCAGCCACCTCTCTTTTTCAGTTGGCTGACTTCCACACC 1901 	AAGAGTCCTATTTGCACTGTAGCCTCGCCGTCTGTGAATTGGACCATCCTATTTAACTGG 1841	AAGTCTACGCTCTCCTTTCTTACTCCAGTGAAGTAATGGGGTCCTGCTCAAGTTGA 1781	GATCAAATTTCACGTCGTCTTCTGTATACTGTGGAGGTACACTCTTATAGAAAGTTCAAA 1721 	ACACTTCTAAATGAAGTGCAAATTTGATACATATGTGAATATGGACTCAGTTTTCTTGCA 1661 	GACTTTGCTCTTGACTCTTGTTTTCAGTTTCAATTCAGTGCTGTACTTGATGACAG 1601 	CTGAGGAGAAACAAATAAGACCAT-AAGGGAAAGGATTCATGTGGAATATAAAGATGGCT 1541 	CTCATTTATCCCTCAACCCCCAGCCCACAGGTGTTATACAGCTCAGCTTTTTGTCTTTT 1482 	TTCAGTGCATCTGGGAAGATTTCTACCCGACCAACAGTTCCTTCAGCTTCCATTTCGCCC 1422 	TCCTTCCATGAAACGTTTTGTGTGGTGGCACCTCCTACGTCAAACATGAAGTGTG-TTCC 1362 	TTAAATCGCCCTTGGTGAAAGAAATTCTTGGAATACTAAAAATCATGAGATCCTTTAAA 1303 	† TTGGCTGGCAAGAAGAATTAAAAAAAAGGCAAGAAATCCAAGAGAAAGTATGAATGA	4 CCCCTCTTCATTCCAGTGGCAGTCATGGTTACTGCATTCTCTGGGTTGGCATTTATCAT 118: 	4 TAGTCCAATATGTCAAAAATTGGACAAAAGTTTCTCAATGATTAAGGAGGGGTGATTATAA 112: 	4 AACTGAGTTAATTGGGAAGAAGAAAACCATTTGTGAATCATCTGGAATCTGGTCAAATCC 1063 	4 TAGCCATCCCCTGGCCAGCTTCAGCTTTACCTCTGCATGTACCTCATCTGCTCAGAAGG 1003	4 AACCTGTCAAGTGATTCAGTGTGAGCCTCTATCAGCACCAGATTTGGGGATCATGAACTG 943 	TAACTGGGA! taactggga!

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RESULT 1
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ID AAV6
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25-FEB-1988;
13-JUL-1989;
13-JUL-1990;
21-MAY-1997;
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                                                                                                                                                                                     New cloning vector and polylinker - based on efficient cloning and expression of mammalian
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This nucleotide sequence comprises human Leu8 cDNA. The cDNA was isolated from a human T lymphocyte cDNA library using a novel isolated from cloning cDNAs from mammalian expression libraries. The method is based on transient expression of an antigen in eukaryotic cells and physical selection of cells expressing the antigen by
                                                                                                                             Example 14;
                                                                                                                                                                        human
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DB; AAW80452.
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e sequence comprises human Leu8 cDNA. The cDNA was a human T lymphocyte cDNA library using a novel ning cDNAs from mammalian expression libraries. The do ntransient expression of an antigen in eukaryotic ical selection of cells expressing the antigen by antibody-coated substrate. The method is useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                      89US-0379076.
90US-0498809.
90US-0553759.
95US-0485447.
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88US-0160416
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Simmons I
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                                                                                                                                                 English
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                                                                                                                                                                                                                                                                                                                                      Lauffer L;
                                                                                                                                                                                            expression fragments
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Query Match 94.3
Best Local Similarity 99.3
Matches 2178; Conservative
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                                   CTTAACTGGGATTGAAGAAACCACCTGTGGACCATTTGGAAACTGGTCATCTCCAGAACC 883
                                                                                                                                                      CCCCTTTGGAAACTTCAGCTTCAGCTCACAGTGTGCCTTCAGCTGCTCTGAAGGAACAAA
                                                                                                                                                                                                                                                                               GCTTGTGATTCAGTGTGAGCCTTTGGAGGCCCCAGAGCTGGGTACCATGGACTGTACTCA 763
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                                                                                                                                                                                                                                                                                                                                                                                                     AGAAATCATCAATAATCACACCTGCAACTGTGATGTGGGGTACTATGGGCCCCCAGTGTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AATTGAGTATCTGGAGAAGACTCTGCCCTTCAGTCGTTCTTACTACTGGATAGGAATCCG 403
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cttaactgggattgaagaaaccacctgtggaccatttggaaactggtcatctccagaacc
                                                                                                                         ctctttgggaaacttcagcttcagctcacagtgtgccttcagctgctctgaaggaacaaa
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.GAAAGTTCAAA 1 gaaagttcaaa 1	AGGTAC aggtac	9 9	Qy
GTTTTCTTGCA 1 gtttcttgca 1	ACACTTCTAAATGAAGTGCAAATTTGATACATATGTGAATATGGACTCA 	1602 1564	Qу
CTTGATGACAG 16 cttgatgacag 15	GACTITGCTCTTTCTTGACTCTTGTTTTCAGTTTCAATTCAGTGCTGTA 	us us	Qу Db
TAAAGATGGCT 15 taaagatggct 15	CTGAGGAGAACAAATAAGACCAT-AAGGGAAAGGATTCATGTGGAATA 	44	Qy Db
TTTTGTCTTTT 14	CTCATITATCCCTCAACCCCCAGCCCACAGGIGITITATACAGCTCAGCT	1423 1384	Qу
TCCATTTCGCCC 1422	TTCAGTGCATCTGGGAAGATTTCTACCCGACCAACAGTTCCTTCAGCTT	ω ω	Qу Db
AAGTGTG-TTCC 1362 	TCCTTCCATGAAACGTTTTGTGTGGTGGCACCTCCTACGTCAAACATGA	1304 1264	Qy Db
GATCCTTTAAA 13 gatcctttaaa 12	TTAAATCGCCCTTGGTGAAAGAAATTCTTGGAATACTAAAAATCATGA 	1244 1204	Оу
AATGACCCATA 1 aatgacccata 1	Ca: — ∑	1184 1144	Qy
GCATTTATCAT 118 	CCCCCTCTTCATTCCAGTGGCAGTCATGGTTACTGCATTCTCTGGGTTG	0	Qy
3GGTGATTATAA 1123 gggtgattataa 1083	TAGTCCAATATGTCAAAAATTGGACAAAAGTTTCTCAATGATTAAGGAG 	0 0	Qy Db
TGGTCAAATCC 10 tggtcaaatcc 10	AACTGAGTTAATTGGGAAGAAGAAAACCATTTGTGAATCATCTGGAATC	1004 964	Qy
CTGCTCAGAAGG 1003 ctgctcagaagg 963	TAGCCATCCCCTGGCCAGCTTCAGCTTTACCTCTGCATGTACCTTCATC	944 904	Qy Db
GATCATGAACTG 943 gatcatgaactg 903	AACCTGTCAAGTGATTCAGTGTGAGCCTCTATCAGCACCAGATTTGGGG 	884	Qу

Search completed: October 13, 2001, 01:44:50 Job time: 6945 sec

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Minimum DB
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Maximum Match 100%
Listing first 45 summaries
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Copyright (c) 1993 - 2000
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                    US-08-461-592B-1
US-08-340-539A-11
US-08-340-539A-11
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US-08-340-539A-5
US-08-340-539A-5
US-08-365-470-2
US-08-365-470-1
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               US-08-110-158-3
PCT-US91-05059-1
5378-64-1
US-08-252-493C-1
US-09-276-197-1
US-08-340-539A-8
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Compugen Ltd
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Sequence 3, Appli
Sequence 1, Appli
Patent No. 5378464
Sequence 1, Appli
Sequence 1, Appli
Sequence 8, Appli
Sequence 7, Appli
Sequence 7, Appli
Sequence 7, Appli
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Sequence 1, Appli
Sequence 11, Appl
Sequence 11, Appl
Sequence 3, Appli
Sequence 5, Appli
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                                                            SEQUENCE CHARACTERISTICS:
LENGTH: 2259 bases
               TYPE: nucleic acid
STRANDEDNESS: single
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Result

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Sequence 18	Sequence 18	Sequence 4,	Sequence 4,	Sequence 4,	Sequence 4,	Sequence 2,	Sequence 25		Sequence 14,	Sequence 14,	Sequence 4,	Sequence 4,	Sequence 3,	Sequence 3,	Sequence 6,	Sequence 6,	Sequence 9,
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ALIGNMENTS

Title:

Run

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ADDERSESSEE Genentech, Inc.
ADDERSESSEE Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080
COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: patin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/513,278
FILING DATE: 10-AUG-1995
CLASSIFICATION UNBER: US/08/513,278
APPLICATION NUMBER: 08/059027
FILING DATE: 06-MAY-1993
APPLICATION NUMBER: 07/786149
FILING DATE: 31-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION UNMBER: 07/315015
FILING DATE: 23-FEB-1989
ATTORNET/AGENT INFORMATION:
NAME: DIGGET R.
REGISTRATION NUMBER: 555D1C1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 1, Applic
Patent No. 5840844
GENERAL INFORMATI
REFERENCE/DOCKET NUMBER: 56
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225-3216
TELEFAX: 415/952-9881
TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO: 1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CORRESPONDENCE ADDRESS:
ADDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: LASKY, LAURENCE A.
APPLICANT: STACHELL, SCOTT E.
APPLICANT: ROSEN, STEVEN D.
APPLICANT: SINGER, MARK S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: YEDNOCK, TED A.
TITLE OF INVENTION: LYMPHOCYTE HOMING RECEPTORS
NUMBER OF SEQUENCES: 6
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                                        AGTGTGAGCCTCTATCAGCACCAGATTTGGGGATCATGAACTGTAGCCATCCCCTGGCCA
                                                                GCTTCAGCTCACAGTGTGCCTTCAGCTGCTCTGAAGGAACAAACTTAACTGGGATTGAAG
                                                                                        AGCCTTTGGAGGCCCCAGAGCTGGGTACCATGGACTGTACTCACCCCTTTGGAAACTTCA 780
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US-08-481-803-1
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CITY: New York
STATE: NY
COUNTRY: USA
ZIP: 10020
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: LBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 1, Application US/08481803 Patent No. 5679346
                                                                                                                                                                                                                                                                                                                                   PRIOR APPLICATION: 424

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/215,366

FILING DATE: 21-MAR-1994

APPLICATION NUMBER: US 07/720,602

FILING DATE: 25-JUN-991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/313,109

FILING DATE: 21-FEB-1989

ATTORNEY/AGENT INFORMATION:

NAME: James F. Haley, Jr.

REGISTRATION NUMBER: 27,794

REFERENCE/DOCKET NUMBER: CG-101 CON

TELEPONE: (212) 596-9000

TELEPAX: (212) 596-9090
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION: APPLICANT: Tedder
                                                                                                                                                                                                                                                                                                        TELEX:
INFORMATION FOR SEQ ID NO:
t Local Similarity 98.5%; thes 2161; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Tedder, Thomas F. and Olivier G. Spertini
TITLE OF INVENTION: MONOCLONAL ANTIBODY TO LYMPHOCYTE-ASSOCIATED CELL
TITLE OF INVENTION: SURFACE PROTEIN
NUMBER OF SEQUENCES: 1
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                SEQUENCE CHARACTERISTICS:
LENGTH: 2330 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
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                                                                                                                                                                ANTI-SENSE:
                                                                                                                            NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: FILING DATE:
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1251 Avenue of the Americas
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Score 2087.6;
Pred. No. 0;
0; Mismatches
                                   DB 1;
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                                   Length 2330;
 9:
Gaps
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GENERAL INFORMATION:
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APPLICATION NUMBER: US 07/720,602
FILING DATE: 25-JUN-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/313,109
FILING DATE: 21-FEB-1989
ATTONNEY/AGENT INFORMATION:
NAME: Nels T. Lippert
REGISTRATION NUMBER: 25,888
REGISTRATION NUMBER: 25,888
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COMPUTER READABLE FORM:

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, V

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/215,366F

FILING DATE: 21-MAR-1994

CLASSIFICATION: 435
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                                                                                                                                                                                                                                                                                         ANTI-SENSE: FEATURE:
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MOLECULE TYPE:
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CORRESPONDENCE ADDRESS:
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STATE: NY
COUNTRY: USA
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                 AAGTCTACGCTCTCCTTTCTTAACTCCAGTGAAGTAATGGGGTCCTGCTCAAGTTGA
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                                                   AAGAGTCCTATTTGCACTGTAGCCTCGCCGTCTGTGAATTGGACCATCCTATTTAACTGG
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Best Local Similarity
Matches 2161; Conserv
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LENGTH: 2330 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
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APPLICATION NUMBER: US 08/008,459
FILING DATE: 25-JAN-1993
ATTORNEY/AGENT INFORMATION:
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NUMBER OF SEQUENCES: CORRESPONDENCE ADDRESS
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LOCATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NAME: Gunnison, Jane REGISTRATION NUMBER:
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STATE: New York
COUNTRY: USA
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                               GAAGATAGGAGGAATATGGACGTGGGTGGGAACCAACAAATCTCTCACTGAAGAAGCAGA
                                                               AATTGAGTATCTGGAGAAGACTCTGCCCTTCAGTCGTTCTTACTACTGGATAGGAATCCG
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                                                                                                                       TTCAGTGCATCTGGGAAGATTTCTACCTGACCAACAGTTCCTTCAGCTTCCATTTCACCC
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                                                                                                                                                                                                                                                                                            GENERAL INFORMATION:
                                                                                                                                                                  APPLICANT: Tedder, Thomas F.
APPLICANT: Tedder, Geoffrey S.
TITLE OF INVENTION: CHIMERIC SELECTINS AS SIMULTANEOUS
TITLE OF INVENTION: BLOCKING AGENTS FOR COMPONENT SELECTIN FUNCTION
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: Weingarten, Schurgin, Gagnebin & Hayes
STREET: Ten Post Office Square
                         COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1741
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CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02109
APPLICATION NUMBER: FILING DATE:
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                                                                                                                  TRY: USA
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Best Local Similarity
Matches 2161; Conserv
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ANTI-SENSE: 1
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 AGCCCTCTGTTACACAGCTTCTTGCCAGCCCTGGTCATGCAGTGGCCATGGAGAATGTGT
                                                         TATCAAGAGAAACAAAGATGCAGGCAAATGGAACGATGACGCCTGCCACAAACTAAAGGC
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Pred. No. 0;
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CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/
FILING DATE: 16-NOV-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/
ETILING DATE: 25-UAN-1993 TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 596-9000
TELEFAX: (212) 596-9090
TELEX: 14-8367
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS: ATTORNEY/AGENT INFORMATION:
NAME: James F. Haley, Jr.
REGISTRATION NUMBER: 27,794
REFERENCE/DOCKET NUMBER: CG-104 08/008,459 08/340,539 DB 2 Length

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RESULT 6
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; Patent No. 5514582
; APPLICANT: CAPON, DANIEL J.; LASKY, LAURENCE A.;
TITLE OF INVENTION: RECOMBINANT DNA ENCODING F
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                                                                                              Query Match
Best Local Similarity
Matches 1667; Conserv
                                                                                                                                                                           APPLICATION NUMBER: US/08/18
FILING DATE: 21-JAN-1994
PRIOR APPLICATION DATA:
APPLICATION UNUBER: 986,931
FILING DATE: 08-DEC-1992
APPLICATION NUMBER: 808,122
FILING DATE: 16-DEC-1991
APPLICATION NUMBER: 440,625
FILING DATE: 22-NOV-1989
APPLICATION NUMBER: 315,015
FILING DATE: 23-FEB-1989
APPLICATION NUMBER: 315,015
FILING DATE: 23-FEB-1989
APPLICATION NUMBER: 315,015
FILING DATE: 23-FEB-1989
APPLICATION NUMBER: 315,015
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         GAGACCCTTGTGCTAAGTCAAGAGGCTCAATGGGCTGCAGAAGAACTAGAGAAAGGACCAA 120
gagacccttgtgctaagtcaagaggctcaatgggctgcagaagaactagagaaggaccaa
                                            TITAAATTTCATCTCAGGCCTCCCTCAACCCCAC
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nilarity 90.3%;
Conservative
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0; Mismatches
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1260	TAAAAAAAGGCAAGAAATCCAAGAGAAGTATGAATGACCCATATTAAATCGCCCTTGGTG	Qy 1201
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1200	GGCAGTCATGGTTACTGCATTCTCTGGGTTGGCATTTATCATTTGGCTGGC	Qy 1141
13	aattggacaaaagtttctcaatgattaaggagggtgattataaccccctcttcattccag	0
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80.	AGAAGAAAACCATTTGTGAATCATCTGGAATCTGGTCAAATCCTAGTCCAATATGTCAAA	Qy 1021
1010	ttcagctttacctctgcatgtaccttcatctgctcagaaggaactgagttaattggga	Db 951
1020 .	CTTCAGCTTTACCTCTGCATGTACCTTCATCTGCTCAGAAGGAACTGAGTTAATTGGGA	Oy 961
950	cca -	80
960	GTGTGAGCCTCTATCAGCACCAGATTTGGGGGATCATGAACTGTAGCCATCCCCTGGCCA	Q у 901
890	AAACCACCTGTGGACATTTGGAAACTGGTCATCTCCAGACCACCTGTCAAGTGATTC	Db 841
4	tcagctcacagtgtgccttcagctgctctgaaggaacaaacttaactgggattgaag	
4	GCTTCAGCTCACAGTGTGCCCTTCAGCTGCTCTGAAGGAACAAACTTAACTGGGATTGAAG	7
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	GCCTTTGGAGGCCCCAGAGCTGGGTACCATGGACTGTACTCACCCCTTTGGAAAC!	Qy 721
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720	CACCTGCAACTGTGATGTGGGGTACTATGGGCCCCAGTGTCAGCTTG	Qy 661
660	cttcttgccagccctggtcatgcagtggccatggagaatgtgtagaaatcatcaataatc	о О
n (### C## CONTRACTOR OF THE PROPERTY OF THE PROP	n :
600	ATCCAGGCAAATGGAACGATGACGCCTGCCACAAACTAAAGGCACACCCTCTGTTACACAG 	Qy 541 Db 541
540	gcccaacaacaagaagaacaaggaggactgcgtggagatctatatcaagagaaa	4
540	AGCCCAACAACAAGAAGAACAAGGAGGACTGCGTGGAGATCTATATCAAGAGAAACAAAG	
480	ggacgtgggtgggaaccaacaatctctcactgaagaagcagagaactggggagatggtg	Db 421
480	GACGTGGGTGGGAACCAACAAATCTCTCACTGAAGAAGCAGAGAACTGGGGAGATGGT	4
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420	GACTCTGCCCTTCAGTCGTTCTTACTACTGGATAGGAATCCGGAAGATAGGAGGAA)	Qy 361
360	gagacaattacacagatttagttgccatacaaaccaggcggaaattgagtatctggaga	-
360	AGACAATTACACAGATTTAGTTGCCATACAAAACAAGGCGGAAATTGAGTATCTGGAG	Оу 301
300	gctggacttaccattattctgaaaaacccatgaactggcaaagggctagaagattctgcc	Db 241
300	CTGGACTTACCATTATTCTGAAAAACCCCATGAACTGGCAAAGGGCTAGAAGATTCTGC	Оу 241
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œ	GCAAAGCCATGATATTTCCATGGAAATGTCAGAGCACCCAGAGGGACTTATGGAACATC	0v 121

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	Sequence 11, Application US/08340539A SETITLE OF INVENTION: BLOCKING AGENTS FOR COMPONENT SELECTIN SEQUENCES: 28 CORRESPONDENCE ADDRESS: ADDRESSE: FISH & NEAVE STREET: 1251 Avenue of the Americas CONTY: New York COUNTRY: USA ZIP: New York COUNTRY: USA ZIP: 10020 COMPUTER READABLE FORM: MEDIUM TYPE: Floppy disk COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: Patentin Release #1.0, Version #1.30 CURRENT APPLICATION NUMBER: US/08/340,539A FILING DATE: 16-NOV-1994 CLASSIFICATION UNMBER: US/08/340,539A FILING DATE: 15-NOV-1994 CLASSIFICATION UNMBER: US/08/340,539A FILING DATE: 25-JAN-1993	1801 TAGCCTGCCGTCTGTGAATTGGACCATCCTATTTAACTGGCTTCA 	1741 TTTCTAACTCCAGTGAAGTAATGGGGTCCTGCTCAAGTTGAAAGAGTCCTATTTGCACTG 180	1681 TTCTGTATACTGTGGAGGTACACTCTTATAGAAAGTTCAAAAAGTCTACGCTCTCCTTTC 174	1621 AAATTTGATACATATGTGAATATGGACTCAGTTTTCTTGCAGATCAAATTTCACGTCGTC 16 	1561 TCTTGTTTTCAGTTTCAATTCAGTGCTGTACTTGATGACAGACA	1501 GACCATAAGGGAAAGGATTCATGTGGAATATAAAGATGGCTGACTTTGCTTTTCTTTGAC 156 	1441 CCCAGCCCACAGGTGTTTATACAGCTCAGCTTTTTGTCTTTTCTGAGGAGAAACAAATAA	1275 127	1381 ATTTCTACCCGACCAACAGTTCCTTCAGCTTCCATTTCGCCCCCTCATTTATCCCTCAACC 1	1275 127	1321 TTGTGTGGTGGCACCTCCTACGTCAAACATGAAGTGTGTTCCTTCAGTGCATCTGGGAAG 138	1261 AAAGAAAATTCTTGGAATACTAAAAATCATGAGATCCTTTAAATCCTTCCATGAAACGTT 132	

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Best Local Similarity
Matches 989; Conserv
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INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
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REFERENCE/DOCKET NUMBER: CG
TELECOMMUNICATION INFORMATION:
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GTCCTGCTCAAGTTGAAAGAGTCCTATTTGCACTGTAGCCTCGCCGCTCTGTGAATTGGA 1824
                                                                             GGTCCTGCTCAAGTTGAAAGAGTCCTATTTGCACTGTAGCCTCGCCGTCTGTGAATTGGA
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                                                                                                                                                              CT----ATGAAGTCAAAAGTCTACGCTCTCCTTTCTTAACTCCAGTGAAGTAATGG
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212-596-9090
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97.8%;
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Query Match Best Local Similarity

Matches 989;

Conservative

40.88;

; Score 922.2; ; Pred. No. 3.2e 0; Mismatches

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Length

1696; 9

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US-08-461-592B-11
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US-08-461-5928-11
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Patent No. 5834425
                                                                                                                                                                                                                                                                                                                                       APPLICATION UMBER: US 08/340
FILING DATE: 16-NOV-1994
PRIOR APPLICATION DATA:
APPLICATION DATA:
US 08/008
FILING DATE: 25-JAN-1993
AFTORNEY,AGENT INFORMATION:
NAME: James F. Haley, Jr.
REGISTRATION NUMBER: 27,794
REGISTRATION NUMBER: CG-1
TELEPHONE: (212) 596-9000
TELEFAX: (212) 596-9090
TELEX: 14-8367
TELEPHONE: TELEY: 14-8367
TELEOMOTINE CONTINENT CONT
                                                                                                                                                                                                                                                                                                             INFORMATION FOR SEQ ID NO:
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                                                             HYPOTHETICAL:
                                                                                              MOLECULE TYPE:
                                                                                                                                                                                                                                        SEQUENCE CHARACTERISTICS:
LENGTH: 1696 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
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PRIOR APPLICATION DATA:
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APPLICANT: Kansas, Geoffrey S.
TITLE OF INVENTION: CHIMMERIC S
TITLE OF INVENTION: BLOCKING A
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                                                                                                                                                                   STRANDEDNESS:
                                                                                                                                                                                                       TYPE: nucleic acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CITY: Boston
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Best Local Similarity
Matches 1160; Conserv
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TELEPHONE: 415/225-3216
TELEPA: 415/952-9881
TELEPA: 910/371-7168
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE: 06-MAY-1993
APPLICATION NUMBER: 07/786149
FILING DATE: 31-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/315015
ETLING DATE: 23-FEB-1989
ATTORNEY/AGENT INFORMATION:
NAME: Dreger, Ginger R.
REGISTRATION NUMBER: 33,055
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MEDIUM TYPE: 5.25 inch, 360 kb f
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: patin (Genentech)
CURRENT APPLICATION DATA:
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APPLICANT: YEDNOCK, TED A.
TITLE OF INVENTION: LYMPHOCYTE
NUMBER OF SEQUENCES: 6
CORRESSPONDENCE ADDRESS:
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APPLICATION NUMBER:
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CLASSIFICATION: 5530
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STREET: 460 Point San Bru
CITY: South San Francisco
STATE: California
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UMBER: 07/786149
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73.4%; Pred. No. 6.2e-242;
vative 0; Mismatches 392;
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5514582-3
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Best Local Similarity
Matches 1160; Conserv
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APPLICATION NUMBER: 986,931
APPLICATION UNBER: 986,931
APPLICATION NUMBER: 986,931
FILING DATE: 08-DEC-1992
APPLICATION NUMBER: 808,122
FILING DATE: 10-DEC-1991
APPLICATION NUMBER: 440,625
FILING DATE: 22-NOV-1989
APPLICATION NUMBER: 315,015
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         512
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CURRENT APPLICATION DATA:
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ANT: CAPON, DANIEL J.;LASKY, LAURENCE
OF INVENTION: RECOMBINANT DNA ENCODING
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Pred. No. 6.2e-242;
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Best Local :
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APPLICATION NUMBER: US/08/
FILING DATE: 16-NOV-1994
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/
FILING DATE: 25-JAN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Gunnison, Jane
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TOPOLOGY: line
MOLECULE TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME: Gunnison, Jane
REGISTRATION NUMBER: 38,479
REFERENCE/DOCKET NUMBER: CG-
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212,596-9000
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TITLE OF INVENTION:
NUMBER OF SEQUENCES:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER: IBM PC compatible OPERATING SYSTEM: PC-DOS/MS-DOS SOFTWARE: PatentIn Release #1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ZIP:
                                                                                                                                                                           72
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STATE: New York
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                                                                                                                                                                        GATTICCTGGCACATCATGGAACCCTACTGCTGGACTTACCATTATTCTGAAAAACCCATG 272
               AACTGGCAAAGGGCTAGAAGATTCTGCCGAGACAATTACACAGATTTAGTTGCCATACAA 332
AACAAGGCGGAAATTGAGTATCTGGAGAAGACTCTGCCTTTCAGTCGTTCTTACTACTGG
                                                                         AACAAGGCGGAAATTGAGTATCTGGAGAAGACTCTGCCCTTCAGTCGTTCTTACTACTGG
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99.2%;
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BLOCKING AGENTS FOR COMPONENT SELECTIN FUNCTION
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                                                                                                                                                                                                                                  Score 385.2; DB 1;
Pred. No. 1.2e-103;
0; Mismatches 3;
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US-08-461-592B-5
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Best Local
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                                                                                                                                                                                                                                                                TELEX: 14-8367
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                        ATTORNEY/AGENT INFORMATION:
NAME: James F. Haley, Jr.
REGISTRATION NUMBER: 27,794
REFERENCE/DOCKET NUMBER: CG-1
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 596-9000
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                                                                                                                                                             MOLECULE TYPE:
HYPOTHETICAL:
                                                                                                                                                                                                                                    SEQUENCE CHARACTERISTICS:
LENGTH: 531 base pairs
                                                                                                                                                  ANTI-SENSE:
                                                                                                                                                                                                                                                                                                                                                                                              PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/340,539
FILING DATE: 16-NOV-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/008,459
FILING DATE: 25-JAN-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Tedder, Thomas F.
APPLICANT: Kansas, Geoffrey S.
TITLE OF INVENTION: CHIMERIC SELECTINS AS SIMULTANEOUS
TITLE OF INVENTION: BLOCKING AGENTS FOR COMPONENT SELECTIN FUNCTION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: Weingarten, Schurgin, Gagnebin & Hayes
COMPUTER READABLE FORM:
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                                                                                                                                                                                        TYPE: nucleic acid
STRANDEDNESS: sing
TOPOLOGY: linear
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                                                         Score 385.2; DB 2;
Pred. No. 1.2e-103;
0; Mismatches 3;
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                                                                                    Length 531;
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                                                                                                                                                                                                                                                                                            FILING DATE: herewith
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION UMBER: US 08/102,510
FILING DATE: 05-AUG-1993
PRIOR APPLICATION DATA:
APPLICATION UMBER: US 07/850,802
FILING DATE: 13-MAR-1992
ATTORNEY/AGENT INFORMATION:
NAME: MARKOWICZ, KATEN R.
REGISTRATION UMBER: 36,351
REGISTRATION INDMER: 0627.13500(
TELECOMMUNICATION INDMER: 36,351
REGISTRATION INDMER: 0627.13500(
TELECOMMUNICATION INDMER: 0627.1350(
TELECOMMU
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                                                                                                                                                                                                                                                                         TELEFAX: 202-371-2540 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GENERAL INFORMATION:
APPLICANT: Gimbrone, Jr., Michael A.
TITLE OF INVENTION: Antibodies Specific For E-selectin And The Uses
TITLE OF INVENTION: Thereof
                                                          FEATURE:
NAME/KEY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIDIM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/365,470
                                                                                                                                                                                                                                               SEQUENCE CHARACTERISTICS:
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   LOCATION:
OTHER INFO
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STRANDEDNESS: single
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      INFORMATION:
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1100 New York Ave.,
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                                nucleic acid
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   nucleic
acid
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; Sequence 18, Application U
; Patent No. 6114517
; GENERAL INFORMATION:
; APPLICANT: Monia, Brett P
; APPLICANT: Xu, Xiaoxing S
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US-09-209-668-18
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Best Local Sim
Matches 508;
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Pred. No. 2.9e-81;
0; Mismatches 330;
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TITLE OF INVENTION: alpha-INDUCED EXPRESSION OF CELL ADHESION MOLECULES
FILE REFERENCE: ISPH-0336
CURRENT APPLICATION NUMBER: US/09/209,668A
CURRENT FILING DATE: 1998-12-10
NUMBER OF SEQ ID NOS: 25
SOFTWARE: PATENTIN Ver. 2.0
SEQ ID NO 18
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Best Local Similarity 60.6%;
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LOCATION: (117)..(1949)
PUBLICATION INFORMATION:
DATABASE ACCESSION NUMBER: M24736/Genbank
DATABASE ENTRY DATE: 1994-11-07
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     CTTCAGCTTTACCTCTGCATGTACCTTCATCTGCTCAGAAGGAACTGAGTTAATTGGGAA 1021
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                                    gtgtgatgctgtgacaaatccagccaatgggttcgtggaatgtttccaaaaccctggaag
                                                                       GTGTGAGCCTCTATCAGCACCAGATTTGGGGATCATGAACTGTAGCCATCCCCTGGCCAG
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Pred. No. 4.3e-81;
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PRIOR APPLICATION DATA:
APPLICATION UMBER: US 08/102,510

FILING DATE: 05-AUG-1993

PRIOR APPLICATION DATA:
APPLICATION UMBER: US 07/850,802

FILING DATE: 13-MAR-1992

APPLICATION UMBER: US 07/850,802

FILING DATE: 13-MAR-1992

ATTORNEY/AGENT INFORWATION:
NAME: MARKOWICZ, KAITON
REGISTRATION NUMBER: 36,351
REFERENCE/DOCKET NUMBER: 0627.135000:
REFERENCE/DOCKET NUMBER: 0627.135000:
TELEPHONE: 202-371-2540
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 3864 base pairs
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US-08-365-470-1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 1, Application US/08365470
Patent No. 5632991
GENERAL INFORMATION:
APPLICANT: Gimbrone, Jr., Michael A.
TITLE OF INVENTION: Antibodies Specific For E-selectin And The Uses
TITLE OF INVENTION: Thereof
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
ADDRESSEED. GENERAL SECUENCES.
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APPLICATION NUMBER: US,
FILING DATE: herewith
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CITY: Washington
CTATE: DC
TCA
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MEDIUM TYPE: Floppy disk
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                                                                 362 GACTOTGCCCTTCAGTCGTTACTACTGGATAGGAATCCGGAAGATAGGAAGATATG 421
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TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
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GACGTGGGTGGGAACCAACAAATCTCTCACTGAAGAAGCAGAGAACTGGGGAGATGGTGA 481
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	6	9	58	021	86	61	38	01	78	341	18	181	558	721	869	561	538	109	178	541	118

Search completed: October 13, 2001, 02:43:31 Job time: 9945 sec

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Minimum DB seq length: 0
Maximum DB seq length: 2000000000
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	25	100.0	2259	15	US-09-119-209-1	Sequence 1, Appli
2	2161	95.7	35	14	S-09-023-65	e 115
ω	_	5	2385	56	S-60-243-521-8	8, Appl
4	15	95.2	2385	53	S-60-213-360-111	1118,
ر ن	2150	ū	56	17	-09-396-970-848	e 8480,
6	2146.8	ŗ	38	18	-09-495-050A-29	292,
7	2146.8	•	38	43	-60-118-318-292	e 292,
- 60		4.	38	49	-60-17	e 15742
· vo		2	2330	ب	PCT-US92-03970-1	,
10		92.4	2330	ш	T-US94-	י
11		92.4	2330	4	US-08-008-459-1	<u>, , , , , , , , , , , , , , , , , , , </u>
12		92.4	2330	7	US-08-340-539-1	Sequence 1, Appli
13		2	2330	æ	1	۲,
14	1605.4	1	1788	48	164-285-5	æ
15	1605.4	71.1	1788	48	-545	e 5456,
16	•		3238	53	-60-212-659-816	816, Ap
	•	2	141589	21	543-679A-	2480,
	•		141589	21	543-679A-	2694
	•	2	141589	21	543-	2719,
	•	2	146982	21	US-09-543-679A-3009	9
c 21	•	2	32336	53	US-60-212-659-230	Sequence 230, App
	•		32386	i G	US-60-230-435-754	equence 754,
	•	۸.	32336	٥ د	US-60-207-315-164	e 164,
25.4	922.2	40.0	1696		PCT-US92-U3970-11	Sequence 11, Appl
26			1696	4	US-08-008-459-11	11,
27	•	40.8	1696	7	US-08-340-539-11	11,
28	•		1696	æ	US-08-410-569-11	11,
29	•		2199	30	US-09-774-490-2	e 2,
30	•		2214	15		equence 3, App
31	•	30.2	3238	ភូ	4	2748,
32	•	•	745	17	US-09-396-970-5762	equence 5762,
33	•	•	519	17	US-09-396-970-6256	equence 6256,
34	•	•	506	29	21	equence 2121,
35	•	19.0	487	17	-09-359-067-4613	equence 46139,
36	420	•	434	19	-09-528-409-10724	equenc
37	07.	•	421	19	-09-52	113
38	405.6		508	.16	-24	e 9103,
39	402	17.8	524	25	-65	e 2022, A
40	401		435	17	-09-39	6114,
41	401		476	16	-28	1303,
42	10		492	29	-09-72	182
43	393.4		464	17	-09-359-	41757,
44	386	17.1	461	29	09-726-811-	284, A
				,	-00-350-067-	42217

240 240

180

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Sequence 1, Application US/U91192U9
GENERAL INFORMATION:
APPLICANT: LASKY, LAURENCE A.
APPLICANT: STACHELL, SCOTT E.
APPLICANT: ROSEN, STEVEN D.
APPLICANT: SINGER, MARK S.
APPLICANT: YEDNOCK, TED A.
TITLE OF INVENTION: LYMPHOCYTE HOMING RE
                                                                                                                                                                                                      US-09-119-209-1
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                                                                                                                                                                                                                                                                        APPLICATION NUMBER: 07/315015
FILING DATE: 23-FEB-1989
ATTORNEY/AGENT INFORMATION:
NAME: LOVE, RICHARD B.
REGISTRATION NUMBER: 34,659
REFERENCE/DOCKET NUMBER: P056
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/252-5530
TELEFAX: 650/952-9881
INFORMATION FOR SEQ ID NO: 1:
                                                                                                                                           Matches
                                                                                                                                                     Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ZIP: 94080

COMPUTER READABLE FORM:

MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy di

COMPUTER: IBM PC compatible

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: WinPatin (Genentech)

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/119,209

FILING DATE: 20-Jul-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/51
FILING DATE: 10-AUG-1995
PRIOR APPLICATION DATA: 08/05
PRIOR APPLICATION NUMBER: 08/05
FILING DATE: 6-MAY-1993
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS:
LENGTH: 2259 base pairs
                      121
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ADDRESSEE: Genentech
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                                                                                                                                          Local Similarity nes 2259; Conserv
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TOPOLOGY: Li
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FILING DATE: 31-OCT-1991
                                                                                                   1 GAATTCCAGTGTGCTGCCTTCCTCACCTGCAGCACAGGACACTCCCTTTGGCAAGGACCT 60
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CITY: South San Francisco
STATE: California
COUNTRY: USA
                                        GCAAAGCCATGATATTTCCATGGAAATGTCAGAGCACCCAGAGGGACTTATGGAACATCT
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10-AUG-1995
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Best Local S
Matches 2200
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APPLICANT: Susan G. Stuart
APPLICANT: Jeffrey J. Seilhamer
TITLE OF INVENTION: COMPOSITION FO
TITLE OF INVENTION: EXPRESSION
NUMBER OF SEQUENCES: 1508
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEFAX: (650) 845-4166
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GENERAL INFORMATION:
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LENGTH: 2354 base pairs
TYPE: nucleic acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REGISTRATION NUMBER: 37,071
REFERENCE/DOCKET NUMBER: 97
TELECOMMUNICATION INFORMATION:
TELEPHONE: (650) 855-0555
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Zeller, Karen J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/023,655
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
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STREET: 3174 PORTER DRIVE
CITY: PALO ALTO
STATE: CALIFORNIA
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mes 2200; Conserv
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AACCCATGAACTGGCAAAGGGCTAGAAGATTCTGCCGAGACAATTACACAGATTTAGTTG
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Sequence 8, Application US/60243521
GENERAL INFORMATION:
APPLICANT: Hopkins, Christopher M.
APPLICANT: Peterson, David P.
APPLICANT: Peterson, David P.
APPLICANT: Cocks, Benjamin G.
APPLICANT: Cocks, Benjamin G.
APPLICANT: Hawkins, Phillip R.
TITLE OF INVENTION: GENES REGULATED IN ACTIFILE REFERENCE: PA-0042 P
CURRENT APPLICATION NUMBER: US/60/243,521
CURRENT FILING DATE: 2000-10-25
NUMBER OF SEQ ID NOS: 116
SOFTWARE: PERL Program
SEQ ID NO 8
LENGTH: 2385
TYPE: DNA
ORGANISM: Homo sapiens US-60-243-521-8; Sequence 8, Apr FEATURE: NAME/KEY: misc_feature

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; OTHER INFORMATION: Template US-60-243-521-8
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US-60-213-360-1118
Sequence 1118, Application
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APPLICANT: Lal, Preeti
APPLICANT: Lil, Preeti
APPLICANT: Diep, Dinh
TITLE OF INVENTION: Method for the Identification of Sequence Polymorphisms Using
TITLE OF INVENTION: Polymucleotide Sequence Databases, and Single Nucleotide Polymor
TITLE OF INVENTION: Identified Thereby
FILE REFERENCE: GX-0014 P
FILE REFERENCE: GX-0014 P
CURRENT APPLICATION NUMBER: US/60/213,360
CURRENT FILING DATE: 2000-06-21
NUMBER OF SEQ ID NOS: 8347
SOFTWARE: PERL PROGram
SEQ ID NO 1118
LENGTH: 2385
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NAME/KEY: misc_feature
OTHER INFORMATION: Incy
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ORGANISM: Homo
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                                  tgtggaatataaagatggctgactttgctctttcttgactcttgttttcagtttcaattc
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Sequence 8480, Application US/09396970

Sequence 8480, Application US/09396970

APPLICANT: Gearing, David P.

APPLICANT: Kingsbury, Gillian A.

TITLE OF INVENTION: NUCLEIC ACID MOLECULES DERIV

TITLE OF INVENTION: MIXED LYMPHOCYTE LIBRARY

FILE REFERENCE: MLN98-40pA

CURRENT APPLICATION NUMBER: US/09/396,970

CURRENT FILING DATE: 1999-09-14

EARLIER APPLICATION NUMBER: 60100,293

EARLIER FILING DATE: 1999-09-14

NUMBER OF SEQ ID NOS: 8756

SOFTWARE: FastSEQ for Windows Version 3.0

SEQ ID NO 8480

LENGTH: 2564

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: misc_feature

LOCATION: (1)...(2564)

OTHER INFORMATION: n = A,T,C or G

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                               TCTGGAATCTGGTCAAATCCTAGTCCAATATGTCAAAAATTGGACAAAAGTTTCTCAATG
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                                            AATTCCTTGATTCACAATGAAATGCTCTCCCTTTCCCCTGCCCCCAGAACTTTTATCCACT
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US-09-495-050A-292
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PRIOR ETILING DATE: February 1, 1999
NUMBER OF SEQ ID NOS: 305
SOFTWARE: PERL Program
SEQ ID NO 292
LENGTH: 2385
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Best Local Similarity
Matches 2198; Conserv
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APPLICANT: Au-Young, Janice
TITLE OF INVENTION: COMPOSITION FOR DETECTION
FILE REFERENCE: PA-0013 US
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ORGANISM: HOMO
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                                      GCCTGCCACAAACTAAAGGCAGCCCTCTGTTACACAGCTTCTTGCCAGCCCTGGTCATGC
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Sequence 292, Application US/60118318
GENERAL INFORMATION:
APPLICANT: ROODA, Reddy
APPLICANT: ROODA, RATI, J.
APPLICANT: AU-YOUNG, Janice
TITLE OF INVENTION: COMPOSITION FOR DETECTIO
FILE REFERENCE: PA-0013 P
CURRENT APPLICATION NUMBER: US/60/118,318
CURRENT FILING DATE: 1999-02-01
NUMBER OF SEQ ID NOS: 306
SOFTWARE: PERL Program
SEQ ID NO 292
LENGTH: 2385
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE: -
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                                            GGCTCAATGGGCTGCAGAAGAACTAGAGAAGGACCAAGCAAAGCCATGATATTTCCATGG
                                                                                      ACCTGCAGCACAGCACACTCCCTTT-GGCAAGGACCTGAGACCCCTTGTGCTAAGTCAAGA
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                                                                          acctgcagcacactccctttgggcaaggacctgagacccttgtgctaagtcaaga
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             TCTGGGTTGGCATTTATCATTTGGCTGGCAAGGAGATTAAAAAAAGGCAAGAAATCCAAG
                                                                     ATTAAGGAGGGTGATTATAAACCCCCTCTTCATTCCAGTGGCAGTCATGGTTACTGCATTC
                                                                                                  TCTGGAATCTGGTCAAAICCTAGTCCAATATGTCAAAAATTGGACAAAAGTTTCTCAATG
                   accttcatctgctcagaaggaactgagttaattgggaagaagaaaaccatttgtgaatca
                                                                                                                                      ACCTTCATCTGCTCAGAAGGAACTGAGTTAATTGGGAAGAAGAAAACCATTTGTGAATCA
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                                                       AATTCCTTGATTCACAATGAAATGCTCTCCCTTTCCCCTGCCCCAGAACTTTTATCCACT
                                                                                       aatgctagctgcaagtgacatctctttgatgtcatatggaagagttaaaacaggtggaga
                                            aattccttgattcacaatgaaatgctctcctttcccctgcccccagaacttttatccact
                                                                                                   AATGCTAGCTGCAAGTGACATCTCTTTGATGTCATATGGAAGAGTTAAAACAGGTGGAGA
                                                                                                                                   ctatttcttatagtcaatgtttcttttatcacgatattattagtaagaaaacatcactga
                                                                                                                                              CTATTTCTTATAGTCAATGTTTCTTTTATGACGATATTAGTAAGAAAACATCACTGA
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.. RESULT 8
US-60-172-373-15742
; Sequence 15742, Application
; GENERAL INFORMATION: US/60172373

APPLICANT: Morris, MacDonald
APPLICANT: Lal, Preeti
APPLICANT: Diep, Dinh
TITLE OF INVENTION: Method for the
TITLE OF INVENTION: Polynucleotide Identification Sequence Databa Databases, of Sequence Poly ases, and Single Polymorphisms | ngle Nucleotide Using e Polym

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; FILE REFERENCE: GX-0006 P
CURRENT APPLICATION NUMBER: US
CURRENT FILING DATE: 1999-12-1
NUMBER OF SEQ ID NOS: 25,772
SOFTWARE: PERL Program
SEQ ID NO 15742
LENGTH: 2387
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
OTHER INFORMATION: Incyte ID
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                         ACGCCTGCCACAAACTAAAGGCAGCCCTCTGTTACACAGCTTCTTGCCAGCCCTGGTCAT
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NAME: Heine, Holliday C.
REGISTRATION NUMBER: 34,346
REFERENCE/DOCKET NUMBER: DFCI-
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-2290
TELEPAX: (617) 451-0313
TELEPX: 940675
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2330 base pairs
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GENERAL INFORMATION:
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CITY: Boston
STATE: Massachusetts
COUNTRY: U.S.A.
TIP: 02109
TERADABLE FORM:
         NAME/KEY: CDS
LOCATION: 53..1210
PUBLICATION INFORMATION:
DOCUMENT NUMBER: US 07/700,773
FILING DATE: 15-MAY-1991
                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: DM PC COMPUTER: DOS/MS-DOS
SOFTWARE: Patentin Release #1.0,
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Dana-Farber Cancer Institute, TITLE OF INVENTION: LEUKOCYTE-ASSOCIATED TITLE OF INVENTION: PROTEIN
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                                                                      FEATURE:
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HYPOTHETICAL:
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                                                                                                                      TOPOLOGY:
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AATGCTCTCCCTTTCCCCTGCCCCCAGACCTTTATCCACTTACCTAGATTCTACATATTC
           AATGCTCTCCTTTCCCCTGCCCCCAGAACTTTTATCCACTTACCTAGATTCTACATATTC
                                                 TCTCTTTGATGTCATATGGAAGAGTTAAAACAGGTGGAGAAATTCCTTGATTCACAAATGA
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APPLICATION NUMBER: PCT/US94/00909

PRIOR APPLICATION NUMBER: US 08/008,459

FILING DATE: 25-JAN-1993

PRIOR APPLICATION NUMBER: US 07/983,606

FILING DATE: 30-WOV-1992

PRIOR APPLICATION NUMBER: US 07/962,483

FILING DATE: 02-APR-1992

PRIOR APPLICATION NUMBER: US 07/770,608

FILING DATE: 03-OCT-1991

PRIOR APPLICATION NUMBER: US 07/737,092

FILING DATE: 03-OCT-1991

PRIOR APPLICATION NUMBER: US 07/737,092

FILING DATE: 29-JUL-1991

PRIOR APPLICATION NUMBER: US 07/730,503

FILING DATE: 08-JUL-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/730,503

FILING DATE: 15-MAY-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/700,773

FILING DATE: 15-MAY-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/730,503

FILING DATE: 15-MAY-1991

PRIOR APPLICATION DATA:

APPLICATION DATA:

APPLICATION NUMBER: US 07/730,703

FILING DATE: 15-MAY-1991

PRIOR APPLICATION DATA:

APPLICATION DATA:

APPLICATION STATES: 11-MAY-1991

PRIOR APPLICATION DATA:

APPLICATION STATES

PRIOR APPLICATION DATA:

APPLICA
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Best Local Similarity
Matches 2161; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOSTWARE: PatentIn Release #1.0, Version
CURRENT APPLICATION DATA:
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TITLE OF INVENTION:
NUMBER OF SEQUENCES:
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TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
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COMPUTER: IE
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Pred. No. 0;
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             TAGCCATCCCCTGGCCAGCTTCAGCTTTACCTCTGCATGTACCTTCATCTGCTCAGAAGG
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RESULT 11
US-08-008-459-1
; Sequence 1, Ap
; GENERAL INFOR
; APPLICANT:
; APPLICANT:

US/08008459

Sequence 1, Application GENERAL INFORMATION: APPLICANT: Tedder, T APPLICANT: Kansas, G

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US-08-008-459-1
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APPLICATION NUMBER: US 07/862,483

FILING DATE: 02-APR-1992

PRIOR APPLICATION NUMBER: US 07/862,483

FILING DATE: 02-APR-1992

FILING TOTAL NUMBER: TRIVERS NUMBER N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE/DOCKET NUMBER: DFGI
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-2290
TELEFAX: (617) 451-0313
TELEFAX: (617) 451-0313
TELEX: 940675
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
                                                                                                                                        Query Match
Best Local Similarity
Matches 2161; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/730,503

FILING DATE: 08-JUL-1991

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/700,773

FILING DATE: 15-MAY-1991

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/313,109

FILING DATE: 21-FEB-1989

ATTONNEY/AGENT INFORMATION:
NAME: Heine, Holliday C.

PROTECTION HOLLIDAY C.

PROTECTION NUMBER: US 07/313,109

APPLICATION NUMBER: US 07/313,109

ATTONNEY/AGENT INFORMATION:
NAME: Heine, Holliday C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILING DATE: 25-JAN-1993
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07,
FILING DATE: 30-NOV-1992
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: PM PC COMPATION
OPERATING SYSTEM: PC POOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.
CURRENT APPLICATION NUMBER: US/08/008,459
APPLICATION NUMBER: US/08/008,459
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: CHIMERIC SELECTINS AS SI
TITLE OF INVENTION: BLOCKING AGENTS FOR COMP
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: Weingarten, Schurgin, Gagnebin
STREET: Ten Post Office Square
                                                                                                                                                                                                                                                                                                                              HYPOTHETICAL:
ANTI-SENSE:
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PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                       MOLECULE TYPE:
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STREET: Ten
CITY: Bosto
STATE: MA
COUNTRY: US
ZIP: 02109
                       104
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                   AACTAGAGAAGGACCAAGCCAAGCCATGATATTTCCATGGAAATGTCAGAGCACCCAGAG 163
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nucleic acid
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BLOCKING AGENTS FOR COMPONENT SELECTIN FUNCTION
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Pred. No. 0;
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; PUBLICATION INFORMATION:
; DOCUMENT NUMBER: US 07/700,773
; FILING DATE: 15-MAY-1991
US-08-340-539-1
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TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-2290
TELEPAX: (617) 451-0313
TELEPAX: 940675
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 2330 Dase pairs
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APPLICANT: Tedder, T
APPLICANT: Kansas, G
TITLE OF INVENTION:
TITLE OF INVENTION:
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FILING DATE: 25-JAN-1993
PRIOR APPLICATION DATA:
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FILING DATE: 30-NOV-1992
PRIOR APPLICATION NUMBER: US 07/862,483
FILING DATE: 02-APR-1992
PRIOR APPLICATION NUMBER: US 07/770,608
FILING DATE: 03-OCT-1991
PRIOR APPLICATION NUMBER: US 07/770,608
FILING DATE: 03-OCT-1991
PRIOR APPLICATION NUMBER: US 07/737,092
FILING DATE: 29-JUL-1991
PRIOR APPLICATION NUMBER: US 07/730,503
FILING DATE: 08-JUL-1991
PRIOR APPLICATION NUMBER: US 07/730,503
FILING DATE: 15-MAX-1991
PRIOR APPLICATION NUMBER: US 07/730,773
FILING DATE: 15-MAX-1991
PRIOR APPLICATION NUMBER: US 07/700,773
FILING DATE: 11-MAX-1991
PRIOR APPLICATION NUMBER: US 07/730,773
FILING DATE: 11-MAX-1991
PRIOR APPLICATION NUMBER: US 07/730,773
FILING DATE: 11-MAX-1991
PRIOR APPLICATION NUMBER: US 07/730,773
FILING DATE: 11-MAX-1991
PRIOR APPLICATION NUMBER: US 07/731,109
PRILING DATE: 11-MAX-1991
PRIOR APPLICATION NUMBER: US 07/313,109
PRILING DATE: 11-MAX-1991
PRIOR APPLICATION NUMBER: US 07/313,109
PRICE APPLICATION NUMBER: US 07/313,109
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FEATURE:
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION DATA:
APPLICATION UMBER: US/08/340,539
FILING DATE: 16-NOV-1994
CLASSIFICATION: 514
CLASSIFICATION: 514
                                                                                                                                                                                                                                                                              MOLECULE TYPE HYPOTHETICAL:
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ADDRESSEE: Weingarten, Schurgin,
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CITY: Boston
STATE: MA
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CHIMERIC SELECTINS AS SIMULTANEOUS
BLOCKING AGENTS FOR COMPONENT SELE
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RESULT 12 US-08-340-539-1

Sequence 1, Application

US/08340539

Db 67 AACTRAGAAGGACCANGCANGCANGCATGATATTTCCTGGAAATGCTCAGGACACCACGAGGACCCAGGAGACCACAGGACACCATCAGGACACCAGGACACCATCAGGACACCAGGACACCATCAGGACACCAGGACACCATCAGGACACCACCAGGACACCATCAGGACACCACCAGGACACCACCATCAGGACACCACCACCACCACCACCACCACCACCACCACCA	Best Match
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US-08-410-569-1
                                                                                                                                                             Query Match
Best Local Similarity
Matches 2161; Conserv
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APPLICATION NUMBER: US 07/770,608

FILING DATE: 03-OCT-1991

APPLICATION NUMBER: US 07/700,773

FILING DATE: 15-MAY-1991

ATTORNEY/AGENT INFORMATION:

NAME: Heine, Holliday C.

REGISTRATION NUMBER: 34,346

REFERENCE/DOCKET NUMBER: DFCG-152EX

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 542-2290

TELEPAX: (617) 451-0313
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                                                                                                                                                                                                                                                                                                                                                                                                                   TELEX: 940675
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                        FEATURE:
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ADDRESSEE: Weingarten, Schurgin, Gagnebin
STREET: Ten Post Office Square
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Tedder, Thomas F.
APPLICANT: Spertini, Olivier G.
TITLE OF INVENTION: LEUKOCYTE ADHESION MOLECULE-1 (LAM-1)
TITLE OF INVENTION: AND LIGAND THEREOF
                                                                                                                                                                                                                                                                                                      ANTI-SENSE:
                                                                                                                                                                                                                                                                                                                 MOLECULE TYPE:
HYPOTHETICAL:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOFTWARE: PatentIn Release #1.0, Version CURRENT APPLICATION DATA:
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CITY: Boston
STATE: MA
COUNTRY: USA
ZIP: 02109
                                                                                                                                                                                                                                                        NAME/KEY:
LOCATION:
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STRANDEDNESS: single
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICATION NUMBER:
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RESULT 14
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; Sequence 5139, Application U
; GENERAL INFORMATION:
; APPLICANT: Ma, X1ao-Jun
; TITLE OF INVENTION: Tumor A
; FILE REFERENCE: 3214
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US-60-164-285-5139
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Best Local S
Matches 1653
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RESULT 15
US-60-164-285-5456
US-60-164-285-5456
; Sequence 5456, Application US/60164285
; GENERAL INFORMATION:
APPLICANT: Ma, Xiao-Jun
FILE OF INVENTION: Tumor Associated Mole
FILE REFERENCE: 3214
CURRENT APPLICATION NUMBER: US/60/164,289;
CURRENT FILING DATE: 1999-11-05
NUMBER OF SEQ ID NOS: 8259
; SEQ ID NO 5456
LENGTH: 1788
TYPE: DNA
ORGANISM: Homo sapiens
US-60-164-285-5456
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Search completed: October 13, 2001, 02:42:35 Job time: 10350 sec

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Minimum DB
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RESULT 2 US-60-278-258-2538 APPLICANT: MOTTIS, MacDonald

APPLICANT: Lal, Preeti

APPLICANT: Lal, Preeti

APPLICANT: Liep, Dinh

TITLE OF INVENTION: Method for the Identific

TITLE OF INVENTION: Polymorphisms Identific

FILE REFERENCE: GX-0010-19

CURRENT APPLICATION NUMBER: US/60/278,258

CURRENT FILING DATE: 2001-03-23

NUMBER OF SEQ ID NOS: 17730 Sequence 2538, Application GENERAL INFORMATION: US/60278258 e Identification of Sequence Datab s Identified Ther Databases, d Thereby of Sequence Polymes, and Single Polymorphisms Using ingle Nucleotide

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SEQ ID NO 2538
LENGTH: 2386
TYPE: DNA
ORGANISM: Homo sapiens
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Best Local Similarity
Matches 2201; Conserv
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AAATAGCCTGCGCGGTTTTTTAGTTTGGGGGTTTTTGCTGTTTTCCTTTTATGAGACCCATT 2	CAGTTGGCTGACTTCCACACCTAGCATCTCATGAGTGCCAAGCAAAAGGAGAGAGA	TGGACCATCCTATTTAACTGGCTTCAGGCCTCCCCACCTTCTTCAGCCACCTCTCTTTTT 1	ATGGGGTCCTGCTCAAGTTGAAAGAGTCCTATTTGCACTGTAGCCTCGCCGTCTGTGAAT 1	CACTCTTATAGAAAGTTCAAAAAGTCTACGCTCTCTTTCTT	TATGGACTCAGTTTTCTTGCAGATCAAATTTCACGTCGTCTTCTGTATACTGTGGAGGTA 1	CAGTGCTGTACTTGATGACAGACACTTCTAAATGAAGTGCAAATTTGATACATATGTGAA 1	ATGTGGAATATAAAGATGGCTGACTTTGCTCTTTCTTGACTCTTTTTTCAGTTTTCAATT 1	CAGCTCAGCTTTTTGTCTTTTCTGAGGAGAAACAAATAAGACCAT-AAGGGAAAGGATTC 1 	CCTTCAGCTTCCATTTCGCCCCCCATTTATCCCTCAACCCCCAGGCCCACAGGTGTTTATA 1	TCAAACATGAAGTGTG-TTCCTTCAGTGCATCTGGGAAGATTTCTACCCGACCACCAACAGTT 1	AAAATCATGAGATCCTTTAAATCCTTCCATGAAACGTTTTGTGTGGTGGCACCTCCTACG 1	GAGAAGTATGAATGACCCATATTAAATCGCCCTTGGTGAAAGAAA	CTCTGGGTTGGCATTTATCATTTGGCTGGCAAGGAGATTAAAAAAAA	GATTAAGGAGGTGATTATAACCCCCTCTTCATTCCAGTGGCAGTCATGGTTACTGCATT 1	ATCTGGAATCTGGTCAAATCCTAGTCCAATATGTCAAAAATTGGACAAAAGTTTCTCAAT 1	TACCTTCATCTGCTCAGAAGGAACTGAGTTAATTGGGAAGAAGAAAACCATTTGTGAATC 1	AGATTTGGGGATCATGAACTGTAGCCATCCCCTGGCCAGCTTCAGCTTTACCTCTGCATG 9	aaactggtcatctccagaaccaacctgtcaagtgattcagtgtgagcctctatcagcacc 9
010	940 950	980	820 831	760 771	700	640 651	580 591	520 531	461 471	401 411	342	282	222 231	L162	102	042	82 91	31

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RESULT 3
US-09-760-475-377
US-09-760-475-377
; Sequence 377, Application US/09760475
; GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENITION: Nucleic Acids, Proteins, an FILE REFERENCE: PTZ49
CURRENT APPLICATION NUBBER: US/09/760,475
CURRENT FILING DATE: 2001-01-16
Prior application data removed - consult PALM ON UNMBER OF SEQ ID NOS: 4122
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 377
LENGTH: 2339
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LOCATION: (2320)
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                      ATGGCTGACTTTGCTCTTTCTTGACTCTTGTTTTCAGTTTCAGTTCAGTGCTGTACTTGA
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Sequence 684, Application US/09760443
GENERAL INFORMATION:
APPLICANT: ROSEN et al.
TITLE OF INVENTION: Nucleic Acids, Proteins,
FILE REFERENCE: PJZ.12
CURRENT APPLICATION NUMBER: US/09/760,443
CURRENT FILING DATE: 2001-01-16
CURRENT ETLING DATE: 201-01-16
NUMBER OF SEQ ID NOS: 2164
SOFTMARE: PATENTIN VET. 2.0
SEQ ID NO 684
LENGTH: 1213
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TYPE: DNA
ORGANISM: Homo saple
FEATURE:
NAME/KEY: SITE
LOCATION: (1114)
OTHER INFORMATION: n
NAME/KEY: SITE
LOCATION: (1121)
OTHER INFORMATION: n
NAME/KEY: SITE
LOCATION: (1142)
COTHER INFORMATION: n
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Best Local Sim
Matches 1171;
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LOCATION: (1157)
OTHER INFORMATION: I
NAME/KEY: SITE
LOCATION: (1182)
OTHER INFORMATION: I
S-09-760-443-684
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                                         ttttgtctttctgaggagaaacaaataagaccataaagggaaaggattcatgtggaat
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Pred. No. 1.1e-292;
9; Mismatches 27;
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Sequence 1506, Application US/09760475
; GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Uncleic Acids, Proteins, an
FILE REFERENCE: PT249
CURRENT APPLICATION NUMBER: US/09/760,475
; CURRENT FILING DATE: 2001-01-16
CURRENT FILING DATE: 2001-01-16
Prior application data removed - consult PALM o
NUMBER OF SEQ ID NOS: 4122
; SOFTWARE: Patentin Ver. 2.0
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LENGTH: 1213
TYPE: DNA
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Best Local Sim
Matches 1171;
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NAME/KEY: SITE
LOCATION: (1114)
OTHER INFORMATION: n equals a,t,g, o:
NAME/KEY: SITE
LOCATION: (1121)
OTHER INFORMATION: n equals a,t,g, o:
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LOCATION: (1142)
OTHER INFORMATION: I
NAME/KEY: SITE
LOCATION: (1157)
                                                                                                                                                                                                                              OTHER INFORMATION: 09-760-475-1506
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NAME/KEY: SITE
LOCATION: (1182)
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ORGANISM: Homo sapiens
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APPLICANT: KOShy, Beena
APPLICANT: KUMAY, ANANT MADAN
TITLE OF INVENTION: HAPLOTYPES OF THE SELL GEN
FILE REFERENCE: SELL MWH1116-PCT
CURRENT APPLICATION NUMBER: PCT/US01/26675
CURRENT FILING DATE: 2001-08-27
PRIOR APPLICATION NUMBER: 60/228,262
PRIOR APPLICATION NUMBER: 50/228,262
PRIOR FILING DATE: 2000-08-25
NUMBER OF SEQ ID NOS: 101
SOFTWARE: Patentin version 3.1
SEQ ID NO 2
LENGTH: 1119
TYPE: DNA
ORGANISM: Homo sapiens
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Best Local Similarity
Matches 1112; Conserv
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APPLICANT: Bieglecki, Karyn M
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Conservative
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TITLE OF INVENTION: Nucleic Acids, Proteins, an
FILE REFERENCE: PM026
CURRENT APPLICATION NUMBER: US/09/758,449
CURRENT FILING DATE: 2001-01-11
PRIOR APPLICATION NUMBER: 60/179,065
PRIOR FILING DATE: 2000-01-31
PRIOR APPLICATION NUMBER: 60/180,628
PRIOR FILING DATE: 2000-02-04
NUMBER OF SEQ ID NOS: 1478
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SEQ ID NO 424
LENGTH: 1298
TYPE: DNA
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RESULT 8
US-09-760-443-575
Sequence 575, Application US/09760443
GENERAL INFORMATION:
APPLICANY: Rosen et al.
FILE OF INVENTION: Nucleic Acids, Proteins,
FILE REFERENCE: PUZ12
CURRENT APPLICATION NUMBER: US/09/760,443
CURRENT FILING DATE: 2001-01-16
Prior application data removed - refer to PA;
NUMBER OF SEQ ID NOS: 2164
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                     aactggtcatctccagaaccaacctgtcaagtgattcagtgtgagcctctatcagcacca
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RESULT 9
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                                                                                                                           LOCATION: (6997)..(6997)
OTHER INFORMATION: PS8:
NAME/KEY: allele
LOCATION: (7027)..(7027)
OTHER INFORMATION: PS9:
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OTHER INFORMATION: PS1:
NAME/KEY: allele
LOCATION: (3444)..(3444)
OTHER INFORMATION: PS2:
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APPLICANT: Anastasio,
APPLICANT: Bieglecki,
APPLICANT: Kliem, Stef
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CURRENT FILING DATE: 2001-08-27
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LOCATION: (6682)..(6682)
OTHER INFORMATION: PS5:
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LOCATION: (4206)..(4206)
OTHER INFORMATION: PS3:
                                       NAME/KEY: allele
LOCATION: (10868)..(10868)
OTHER INFORMATION: PS11:
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LOCATION: (6783)..(6783)
OTHER INFORMATION: PS6:
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LOCATION: (5153)..(5153)
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LOCATION: (12363)..(12363)
OTHER INFORMATION: PS12:
                         NAME/KEY: allele
                                                                                                  NAME/KEY: allele
LOCATION: (8220)
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Koshy, Beena
Kumar, Anant Madan
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Bieglecki, Karyn
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Best Local
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LOCATION: (24122)..(24122).
OTHER INFORMATION: PS21: p
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LOCATION: (23787)..(23787)
OTHER INFORMATION: PS18:
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OTHER INFORMATION: PS16:
NAME/KEY: allele
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LOCATION: (19074)..(19074)
OTHER INFORMATION: PS15:
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LOCATION: (24041)...(24041)
OTHER INFORMATION: PS20:
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OTHER INFORMATION: PS19:
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LOCATION: (2392
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OTHER INFORMATION: PS17:
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                          ggtcctgctcaagttgaaagagtcctatttgcactgtagcctcgccgtctgtgaattgga
                                         GGTCCTGCTCAAGTTGAAAGAGTCCTAITTGCACTGTAGCCTCGCCGTCTGTGAATTGGA 1824
                                                                                  CTTATAGAAAGTTCAAAAAGTCTACGCTCTCCTTTCTTACCTCCAGTGAAGTAATGG
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Matches 797;
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OTHER INFORMATION: n e
NAME/KEY: SITE
LOCATION: (54)
OTHER INFORMATION: n e
S-09-758-449-373
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NUMBER OF SEQ ID NOS: 1478
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 373
LENGTH: 1063
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 373, Application US/09758449 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                           CURRENT APPLICATION NUMBER: US/09/758,449
CURRENT FILING DATE: 2001-01-11
PRIOR APPLICATION NUMBER: 60/179,065
PRIOR FILING DATE: 2000-01-31
                                                                                                                                                                                                                                                                                                                                                                                PRIOR APPLICATION NUMBER: 60/180,628
                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and
FILE REFERENCE: PM026
                                                                                                                                                                                                                                                                                                             TYPE: DNA
                                                                                                                                                                                                                                                                                                  ORGANISM: Homo sapiens
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99.3%;
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                                                                                                                                         Score 775; DB 6; 1
Pred. No. 7.4e-200;
2; Mismatches 2;
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                                                                                                                                                                Length 1063;
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Sequence 210, Application US/09796692

GENERAL INFORMATION:
APPLICANT: Gaiger, Alexander
APPLICANT: Algate, Paul A.
APPLICANT: Algate, Paul A.
APPLICANT: Mannion, Jane
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DETECTION, DIAGNOSIS AND THER
TITLE OF INVENTION: HEMATOLOGICAL MALIGNANCIES
FILE REFERENCE: 2077.001200
CURRENT FILING DATE: 2001-03-01
PRIOR APPLICATION NUMBER: 60/186, 126
PRIOR FILING DATE: 2000-03-01
PRIOR FILING DATE: 2000-03-01
PRIOR APPLICATION NUMBER: 60/190, 479
PRIOR FILING DATE: 2000-04-27
PRIOR APPLICATION NUMBER: 60/200, 303
PRIOR FILING DATE: 2000-04-27
PRIOR APPLICATION NUMBER: 60/200, 303
PRIOR FILING DATE: 2000-04-28
PRIOR APPLICATION NUMBER: 60/200, 799
PRIOR APPLICATION NUMBER: 60/200, 999
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US-09-796-692-210/c
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R FILING DATE: 2000-05:
R APPLICATION NUMBER: (
R ETLING DATE: 2000-05:
R APPLICATION NUMBER: (
R APPLICATION NUMBER: (
R FILING DATE: 2000-05:
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                                 2000-05-04
                60/206,201
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RESULT 12
US-09-796-692-4884/c
US-09-796-692-4884, Application US/09796692
; Sequence 4884, Application US/09796692
; GENERAL INFORMATION:
; APPLICANT: Gaiger, Alexander
; APPLICANT: Algate, Paul A.
; APPLICANT: Mannion, Jane
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRIOR FILING DATE: 2000-07-14
PRIOR APPLICATION NUMBER: 60/222,903
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: 60/223,416
PRIOR APPLICATION NUMBER: 60/223,416
PRIOR FILING DATE: 2000-08-04
PRIOR FILING DATE: 2000-08-07
PRIOR FILING DATE: 2000-08-07
NUMBER OF SEQ ID NOS: 9597
SOFTWARE: FastSEQ for Windows Version 3.
SEQ ID NO 210
LENGTH: 579
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, NAME/KEY: misc_feature
; LOCATION: (1)...(579)
; OTHER INFORMATION: n = A,T,C
US-09-796-692-210
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Best Local Similarity
Matches 575; Conserv
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                                                                                                             CAGAACTITTATCCACTTACCTAGATTCTACATATTCTTT 2204
                                                                                                                                          AGCCACCTCTCTTTTCAGTTGGCTGACTTCCACACCTAGCATCTCATGAGTGCCAAGCA 1924
                                                                                                                                                                                                                                                                                                                                                               CAGACCTTTATCCACTTACCTAGATTCTACATATTCTTT 1
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Pred. No. 3.2e-142;
0; Mismatches 4;
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PRIOR FILING DATE: 2000-03-01
PRIOR PRIOR APPLICATION NUMBER: 60/190,479
PRIOR FILING DATE: 2000-03-17
PRIOR PRIOR APPLICATION NUMBER: 60/200,545
PRIOR APPLICATION NUMBER: 60/200,545
PRIOR FILING DATE: 2000-04-28
PRIOR FILING DATE: 2000-04-28
PRIOR PRIOR APPLICATION NUMBER: 60/200,779
PRIOR APPLICATION NUMBER: 60/200,779
PRIOR APPLICATION NUMBER: 60/200,999
PRIOR FILING DATE: 2000-05-01
PRIOR PRIOR PRIOR DATE: 2000-05-04
PRIOR APPLICATION NUMBER: 60/202,084
PRIOR APPLICATION NUMBER: 60/202,084
PRIOR APPLICATION NUMBER: 60/218,950
PRIOR APPLICATION NUMBER: 60/218,950
PRIOR FILING DATE: 2000-05-04
PRIOR APPLICATION NUMBER: 60/218,950
PRIOR APPLICATION NUMBER: 60/218,950
PRIOR APPLICATION NUMBER: 60/223,378
PRIOR APPLICATION NUMBER: 60/223,378
PRIOR APPLICATION NUMBER: 60/223,378
PRIOR PILING DATE: 2000-08-03
PRIOR PILING DATE: 2000-08-03
PRIOR PILING DATE: 2000-08-04
PRIOR PILING DATE: 2000-08-07
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Best Local Similarity
Matches 575; Conserv
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NAME/KEY: unsure
LOCATION: (511)
OTHER INFORMATION: (
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SOFTWARE: FastSEQ for Windows
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CURRENT APPLICATION NUMBER: US/09/796,692

CURRENT FILING DATE: 2001-03-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: DNA
ORGANISM: Homo
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TTTTATGAGACCCATTCCTATTTCTTATAGTCAATGTTTCTTTTATCACGATATTATTAG
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Pred. No. 3.2e-142;
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; LOCATION: (497)
; OTHER INFORMATION: n=A,T,C
US-09-796-692-5257
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Best Local S
Matches 573
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SOFTWARE: FastSEQ for
SEQ ID NO 5257
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PRIOR FILING DATE: 2000-03-01
PRIOR APPLICATION NUMBER: 60/190,479
PRIOR FILING DATE: 2000-03-17
PRIOR APPLICATION NUMBER: 60/200,545
PRIOR FILING DATE: 2000-04-27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Algate, Paul A.

APPLICANT: Mannion, Jane
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DETECTION, DIAGNOSIS AND THERAPY
TITLE OF INVENTION: HEMATOLOGICAL MALIGNANCIES
                                                                                                                                                                                                                                                                                                                                       PRIOR FILING DATE:
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                                                                                                                                                                                                                                             TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                 FEATURE:
                            1688 TACTGTGGAGGTACACTCTT-ATAGAAAGTTCAAAAAGTCTACGCTCTCCTTTCTTTCTA 1746
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hes 573; Conserv
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OR FILING DATE: 2000-04-28
OR APPLICATION NUMBER: 60/200,779
OR FILING DATE: 2000-04-28
OR PPLICATION NUMBER: 60/200,999
OR FILING DATE: 2000-05-01
OR APPLICATION NUMBER: 60/202,084
                                                                                                                                                                                                                                                                                                                                                  FILING DATE: 2000-08-04
APPLICATION NUMBER: 60/223,378
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Pred. No. 1.1e-138;
0; Mismatches 3;
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                        PRIOR ETILING DATE: 2001-03-01
PRIOR APPLICATION NUMBER: 60/186,126
PRIOR ETILING DATE: 2000-03-01
PRIOR APPLICATION NUMBER: 60/190,479
PRIOR ETILING DATE: 2000-03-17
PRIOR APPLICATION NUMBER: 60/200,545
PRIOR FILING DATE:
                                                                                                                                                                                                                    APPLICANT: Gaiger, Alexander APPLICANT: Algate, Paul A. APPLICANT: Mannion, Jane
 PRIOR FILING DATE: 2000-04-27 PRIOR APPLICATION NUMBER: 60/
                                                                                                                                CURRENT APPLICATION NUMBER: US/09/796,692 CURRENT FILING DATE: 2001-03-01
                                                                                                                                                                                   TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DETECTION, DIAGNOSIS AND THER TITLE OF INVENTION: HEMATOLOGICAL MALIGNANCIES
                                                                                                                                                                    FILE REFERENCE: 2077.001200
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FILE REFERENCE: 2077.001200
CURRENT APPLICATION NUMBER: US/09/796,692
CURRENT APPLICATION NUMBER: 60/186,126
PRIOR APPLICATION NUMBER: 60/186,126
PRIOR FILING DATE: 2000-03-01
PRIOR APPLICATION NUMBER: 60/200,545
PRIOR APPLICATION NUMBER: 60/200,545
PRIOR APPLICATION NUMBER: 60/200,303
PRIOR FILING DATE: 2000-04-28
PRIOR APPLICATION NUMBER: 60/200,779
PRIOR APPLICATION NUMBER: 60/200,779
PRIOR APPLICATION NUMBER: 60/200,999
PRIOR FILING DATE: 2000-04-28
PRIOR APPLICATION NUMBER: 60/202,084
PRIOR APPLICATION NUMBER: 60/202,084
PRIOR APPLICATION NUMBER: 60/202,084
PRIOR APPLICATION NUMBER: 60/203,091
PRIOR APPLICATION NUMBER: 60/203,291
PRIOR APPLICATION NUMBER: 60/203,416
PRIOR APPLICATION NUMBER: 60/223,416
PRIOR APPLICATION NUMBER: 60/223,378

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APPLICANT: Sellhamer, Jeffrey J.
APPLICANT: DeLegeane, Angelo M.
APPLICANT: DeLegeane, Angelo M.
APPLICANT: Stuart, Susan G.
APPLICANT: Stuve, Laura L.
APPLICANT: Mullahy, Sara J.
APPLICANT: Naughton, Rebecca E.
TITLE OF INVENTION: POLYNUCLEOTIDES ENCODING OR
FILE REFERENCE: PD-1012 CIP
CURRENT APPLICATION NUMBER: US/09/534,857
CURRENT ETLING DATE: 2000-03-24
PRIOF APPLICATION data removed - consult PALM OF SUCTIONARE: PERL PROGRAM
PRIOF APPLICATION NOW BER: US/09/534,857
ON HOUSE OF SEQ ID NOS: 8920
SOFTWARE: PERL PROGRAM
SEQ ID NO 3296
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-09-796-692-8471
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TYPE: DN
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OTHER INFORMATION: n=A,T,C
NAME/KEY: unsure
LOCATION: (450)
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ENGTH: 512
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Pred. No. 8.6e-124;
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Search completed: October 13, Job time: 8394 sec

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; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID
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TYPE: DNA
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                     TCCCTCAACCCCAC 2235
                                                                                         TAGTAAGAAAACATCACTGAAATGCTAGCTGCAAGTGACATCTCTTTGATGTCATATGGA 135
                                                                                                                                                  TAGTAAGAAAACATCACTGAAATGCTAGCTGCAAGTGACATCTCTTTGATGTCATATGGA 2101
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                                              CCCCAGACCTTTTATCCACTTACCTAGATTCTACATATTCTTTAAATTTCATCTCAGGCC
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0; Mismatches 20;
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Database :
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq length: 2000000000
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2259
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Copyright (c) 1993 - 2000 Compugen Ltd.
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pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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TITLE
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COMMENT
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VERSION
KEYWORDS
                                                                   REFERENCE
AUTHORS
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602590967F1 NIH_MGC_77 H
mRNA sequence.
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BG570665.1 GI:13578318
EST.
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; V
Mammalia; Butheria; Primates; Catarrhini;
1 (bases 1 to 827)
NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian
Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
                                                                                                                                                                                  human
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W85940 zh56612.r1
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Tissue Procurement: CLONTECH Laboratories, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
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/Clone_Iib="NIH_MGC_77"
//lab_host="DH10B (T1 phage-resistant)"
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//lab_host="DH10B (T1 phage-resistant)
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Contact: Robert Strausberg, Ph.D.
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Tissue Procurement: CLONTECH Laboratories,
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National Institutes of Health, Mammalian
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Location/Qualifiers
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/lab_host="DHIOB (TI phage-resistant)"
/note="Organ: lung; Vector: pDNR-LIB (Clontech); Site_1:
/note="Organ: lung; Vector: pDNR-LIB (Clontech); Site_1:
/note="Organ: lung; Vector: pDNR-LIB (Clontech); Site_1:
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/note-"Organ: lung; Vector: pdn (gccattatggcc); 5' and
/note-"Organ: lung; Vector: pdn (gccattatggcc); 5' adaptor
/note-"Organ: lung; 1' adaptor sequence:
/note-"Orga
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/db_xref="taxon:9606"
/clone="IMAGE:4694194"
/clone_lib="NIH_MGC_77"
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Pred. No. 2.3e-174;
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                                   Contact: John Quackenbush
The Institute for Genomic R
9712 Medical Center Dr., Ro
Tel: 301 838 3528
Fax: 301 838 0208
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                                                                                                    Assessment of gene expression metastasis using a 19,200 elem Unpublished (2000)
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Hegde,P., Qi,R., Abernathy,K.,
,I.E., Saeed_A.I., Sharov,V.,
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AW950859.1 GI:8140521
            Email: johnq@tigr.org
Plate: 20
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Mammalia; Eutheria;
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UI-HF-BKO-abm-g-01-0-UI.rl NIH_MGC_36
IMAGE:3056832 5', mRNA sequence.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 551)

NIH-MGC http://mgc.nci.nih.gov/.
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                                       Homo sapiens
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/db_xref="taxon:9606"
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/clone_lib="MAGE resequences,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Email: cgapbs-remail.nih.gov
Eco RI site shown at the beginning of the sequence.
Tissue Procurement: Louis M. Staudt, M.D., Ph.D.
cDNA Library Preparation: M.B. Soares Lab
cDNA Library Arrayed by: M.B. Soares Lab
DNA Sequencing by: M.B. Soares Lab
Clone distribution: MGC clone distribution information
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Contact: Robert St
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/db_xref="taxon:9606"
/clone="IMAGE:3056832"
/clone=lib="NIH_MGC_36"
/tissue_type="lymph"
/cell_type="germinal center B
/cell_line="MGC85"
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Bonaldo, Ph.D. and
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/note="Vector: pT773-Pac; Site_1: NotI; Site_2: Eco RI;
/note="Vector: pT773-Pac; Site_1: NotI; Site_2: PT773-Pac; Site_2: PT773
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                                                                                                                                                                                                            ACCTGCAGCACAGCACACTCCCTTTGGCAAGGACCTGAGACCCTTGTGCTAAGTCAAGAG 84
                                                                                                                                                            GCTCAATGGGCTGCAGAAGAACTAGAGAAGGACCAAGCAAAGCCATGATATTTCCATGGA 144
                                                                       AATGTCAGAGCACCCAGAGGGACTTATGGAACATCTTCAAG-TGTGGGGGTGGACAATGC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Email: cgapbs-r@mail.nih.gov
Tissue Procurement: CLONETECH Laboratories, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Unpublished (1999)
Contact: Robert Strausberg, Ph.D.
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1 (bases 1 to 876)
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National Institutes of Health, Mammalian Gene Collection (MGC)
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/clone_lib="NIH_MCC_81"
/clone_lib="NIH_MCC_81"
/lab_host="DH10B (T1 phage-resistant)"
/note="Organ: muscle (skeletal); Vector: pDNR-LIB
/clontech); Site_1: SfiI (ggcogctcggcc); Site_2: SfiI
/ggccattatggcc); 5' and 3' adaptors were used in cloning
as follows: 5' adaptor sequence: 5'-cACGGCCATTATGGCC-3'
and 3' adaptor sequence:
                                                                                                                                                                                                                                                                                                                                                                                                              clones and was constructed by Clontech Alto, CA)."
                                                                                                                                                                                                                                                                                                                                                                                                                                           5'-ATTCTAGAGGCCGAGGCGGCCGACATG-dT(30)BN-3' (where B = A, c, or G and N = A, C, G, or T). Average insert size 1.55 kb (range 1.0-4.0 kb). 15/15 colonies contained inserts by PCR. This library was enriched for full-length
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                                                                                                                                                                                                                                                                                       Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Elisabeth Paietta, Jonathan D. Licht, M.D.,
Michael R. Emmert-Buck, M.D., Ph.D. cDNA Library Preparation: Li
Technologies, Inc. cDNA Library Arrayed by: Christa Prange, The
I.M.A.G.E. Consortium DNA Sequencing by: Washington University
Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can
found through the I.M.A.G.E. Consortium/LLNL at:
                                                                                                                                                                                                                                                         www-bio.llnl.gov/bbrp/image/image.html
Seq primer: -40UP from Gibco
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Tumor Gene Index
Unpublished (1997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           sequence.
AW075834
                                                                                                                                                                                                                                           High quality sequence stop: 147.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 632)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                National Cancer Institute, Cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
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   175
                                                              /organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="ImAGE:257392"
/clone_lib="NCI_CGAP_CML1"
/tissue_type="myeloid cells, 18 porrearrangement positive, includes bomyeloid blast crisis"
/lab_host="DH10B"
   ۵
 /note="Organ: whole blood; Vector: pCMV-SPORT6; Site_1: Sall; Site_2: NotI; Cloned unidirectionally. Primer: Oligo dT. Library constructed by Life Technologies." 126 c 130 g 201 t
                                                                                                                                                                                                                         Location/Qualifiers
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NCI_CGAP_CML1 Homo sapiens cDNA clone IMAGE:2573092

9 gb:X16150_cds1 L-SELECTIN PRECURSOR (HUMAN);, mRNA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TGATTAAGGAGGGTGATTATAACCCCCCTCTTCATTCCAGTGGCAGTCATGGTTACTGCAT 1161
                                                                                                                                       mRNA sequence.
BF243091
BF243091.1 GI:11157019
EST.
                                                                                                                                                                                BF243091 881 bp mRNP
601876443F1 NIH_MGC_55 Homo
                                                  NIH-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian
Unpublished (1999)
                                                                                    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; |
Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
1 (bases 1 to 881)
                      Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
                                           Contact: Robert Strausberg,
                                                                                                                    Homo sapiens
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CDNA Library Preparation: CLONETECH Laboratories, CDNA Library Arrayed by: The I.M.A.G.E. Consortiu
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IMAGE:4104946 5',
(LLNL)
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                                                                                                                                                  ATAAGACCAT-AAGGGAAAGGATTCATGTGGAATATAAAGATGGCTGACTTTGCTCTTTC 1555
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                                                         AGTGCAAA-TTGATACATATGTGAATATGGACTCAGTTNTCTTGCAGATCAAATTTCACG
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/clone_lib="NIH_MGC_55"
/tissue_type="from acute myelogenous leukemia"
/lab_host="DH10B (TI phage-resistant)"
/note="Organ: bone marrow; Vector: pDNR-LIB (Clontech);
Site_1: SfiI (ggccgcctcggcc); Site_2: SfiI (ggccattatggcc); Site_2: SfiI (ggccattatggcc); Double-stranded cDNA was prepared from cell line RNA.
5; and 3; adaptors were used in cloning as follows: 5; adaptor sequence: 5'-CACGGCCATATGGCC-3' and 3' adaptor sequence: 5'-ATTCTAGAGGCCGAGGGCCGCACATG-dT(30)BN-3'
(where B = A, C, or G and N = A, C, G, or T). Average insert size 1.65 kb (range 0.9-4.0 kb). 14/15 colonies contained inserts by PCR. This library was enriched for full-length clones and was constructed by Clontech Laboratorles (Palo Alto, CA)."
46 a 184 c 199 g 251 t 1 others
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/db_xref="taxon:9606"
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GGCTCAATGGGCTGCA-GAAGAACTAGAGAAGGACCAAGCCAAAGCCATGATATTTCCATG 142
                                                                                      ACCTGCAGCACAGCACACTCCCTTT-GGCAAGGACCTGAGACCCCTTGTGCTAAGTCAAGA 83
                                                                     ACCTGCAGCACACCACTTCCTTTGGGCAAGGACCTGAGACCCTTGTGCTAAGTCAAGA 131
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Email: cgapbs-r@mail.nih.gov
Tissue Procurement: ATCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NIH-MGC http://mgc.nci.nih.gov/
National Institutes of Health, Mammalian Gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Unpublished (1999)
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602560237F1 NIH_MGC_61
                                                                                                                                                              Similarity
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http://image.llnl.gov
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
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1 (bases 1 to 946)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cDNA Library Preparation: CLONETECH L
cDNA Library Arrayed by: The I.M.A.G.
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                                                                                                                                                                                                                                                                                    /tissue_type="embryonal carcinoma"
/lab host="DH10B (T1 phage-resistant)"
/note="Organ: testis; Vector: pDNR-LIB (Clontech); Site_1:
Sfil (ggcgcttgggc); Site_2: Sfil (ggcattatggcc);
Sfil (ggcgcttggcc); Site_2: Sfil (ggcattatggcc);
Double-stranded cDNA was prepared from cell line RNA. 5'
and 3' adaptors were used in cloning as follows: 5'
adaptor sequence: 5'-CACGGCCATMATGGCC-3' and 3' adaptor
sequence: 5'-ATMCTAGAGGCCGAGGCGGCGACAGG-dT[30)BN-3'
(where B = A, C, or G and N = A, C, G, or T). Average
insert size 1.75 kb (range 0.9-4.0 kb). 15/15 colonies
contained inserts by PCR. This library was enriched for
full-length clones and was constructed by Clontech
Laboratories (Palo Alto, CA). Note: this is a NIH_MGC
                                                                                                                                                                                                                                                       Library."
186 c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /clone="IMAGE:4698320"
/clone_lib="NIH_MGC_61"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /organism="Homo sapiens"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Location/Qualifiers
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                                                                                                                                        Score 429.4; DB 134
Pred. No. 1.9e-110;
Pred. No. 1.9e-110;
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IMAGE:4698320
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RESULT 9
AA669146/c
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                              Email: est@watson.wustl.edu
This clone is available royalty-free through LLNL; contact the
IMAGE Consortium (info@mange.llnl.gov) for further information.
Seq primer: -40ml3 fwd. ET from Amersham
High quality sequence stop: 473.
                                                                                                                      4444 Forest Park Parkway,
Tel: 314 286 1800
Fax: 314 286 1810
                                                                                                                                                                                                                              Hillier, L., Allen, M., Bowles, L., Dubuque, T., Geisel, G., Jost, S., Krizman, D., Kucaba, T., Lacy, M., Le, N., Lennon, G., Marra, M., Martin, J., Moore, B., Schellenberg, K., Steptoe, M., Tan, F., Theising, B., White, Y., Wylie, T., Waterston, R. and Wilson, R. Washly, NCI human EST Project
                                                                                                                                                                                                                                                                                                                        Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1. (bases 1 to 575)
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ab94c05.s1 Stratagene lung (#9:
IMAGE:854600 3', mRNA sequence
AA669146
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EST.
                                                                                                                                                                                 Washington University
                                                                                                                                                                                                Contact: Wilson RK
                                                                                                                                                                                                                    Unpublished (1997
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sapiens'

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REFERENCE
AUTHORS
TITLE
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BG236008/c
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KEYWORDS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATCTCATGAGTGCCAAGCAAAAGGAGAGAGAAGAGAATAGCCTGCGCTGTTTTTTAGTT
                                                                                                                                                                             mRNA sequence.
BG236008
BG236008.1 GI:
EST.
Contact: Robert Strausberg, Ph.D.
Email: gapbs-remail.nih.gov
Tissue Procurement: M. Bento Soares, Ph.D.
cDNA Library Preparation: M. Bento Soares, Ph.D.
                                                    Tumor Gene Index
Unpublished (1997)
                                                                                                          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; 1 (bases 1 to 567)
                                                                                                                                                                                                                                 BG236008 567 bp n
naf20hll.xl Soares_NPBMC
                                                                                                                                                   Homo sapiens
                                                                               NCI-CGAP http://www.ncbi.nlm.nih.gov/ncicgap.
National Cancer Institute, Cancer Genome Anat
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /db_xref="taxon:9606"
/clone="IMAGE:854600"
/clone_lib="Stratagene lung
/sex="male"
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0; Mismatches 6;
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IMAGE:4141700
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(HUMAN);,
N72396
                                  N72396 465 bp mRNA EST 02-APR-1996
yv39c11.rl Soares fetal liver spleen INFLS Homo sapiens cDNA clone
IMAGE:245108 5' similar to gb:X16150_cds1 L-SELECTIN PRECURSOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             info@image.llnl.gov
Seq primer: -40UP from Gibco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CONA Library Arrayed by: The I.M.A.G.E. Consortlum (LLNL)
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortlum/LLNL at:
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                      mRNA sequence
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                                                                                                                 ACTGAGTTAATTGGGAAGAAGAAAACCATTTGTGAATCATCTGGAATCTGGTCAAATCCT
                                                                         ATCCCCTGGCCAGCTTCAGCTTTACCTCTGCATGTA----CCTTCATCTGCTCAGAAGGA 1004
                                                                                                                                                                              ATCCCCTGGCCAGCTTCAGCTTTACCTCTGCATGNACNTTCNTTCATCTGCTCATAAGGA
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1 (bases 1 to 465)

Hillier,L., Clark,N., Dubuque,T., Elliston,K., Hawkins,M., Holman,M., Kucaba,T., Le,M., Lennon,G., Marra,M., Parsons,J.,R., Maltiman,M., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and Wilson,R.

The WashU-Merck EST Project
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Tel: 314 286 1800
Fax: 314 286 1810
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Location/Qualifiers
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Unpublished (1995)
Contact: Wilson RK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Email: est@watson.wustl.edu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 This clone is available royalty-free through LLNL; contact the IMAGE Consortium (info@image.llnl.gov) for further information.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 /sex="male"
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/clone="IMAGE:245108"
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/db_xref="GDB:3794354"
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Pred. No. 4.8e-104;
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JOURNAL
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                                                                                                TGTTGTGATTTCCTGGCACATCATGGAACCTACTGCTGGACTTACCATTATTCTGAAAAA
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                                                                                                                                                                                                                                     TCAATGGGCTGCAGAAGAACTAGAGAAGGACCAAGCCAAGCCATGATATTTCCATGGAAA 146
                                                                                                                                                      TGTCAGAGCACCCAGAGGGACTTATGGAACATCTTCAAGTTGTGGGGGGTGGACAATGCTC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Shanghai.
Chinese National Human Genome Center at Shan Chinese National Human Genome Center at Shan 351 Guo Shoujing Road, Zhangjiang Hi- Tech Location/Qualifiers
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AV737434
AV737434
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Tel: 86-21-64740490
Fax: 86-21-64743206
Email: mbshi@ms.stn.sh.cn
This clone is available at Shanghai Hematology Institute
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Contact: 2hu Chen
Shanghai Institute of Hematology, Rui-Jin Hospital
197 Rui-Jin II Road, Shanghai 200025, P. R. China
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Zhang,Q., Ye,M., Wu,X., Gu,J., Huang,Q., Chen,S., Mao,M. and Chen,Z.
Homo sapiens CB library cDNA clones
Unpublished (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
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                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                  /note="Vector: pBluescript; Site_1: EcoRI; cloned randomly with the EcoRI digestion" a 120 c 149 g 112 t 5 others
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CB Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                           /tissue_type="cord blood"
/cell_type="CD34+ hematopoietic stem/progenitor cell"
/lab_host="BM25.8"
                                                                                                                                                                                                                                                                                                                                                                                                                                     /clone="CBCCEF10"
/clone_lib="CB"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /organism="Homo sapiens"
/db_xref="taxon:9606"
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93.8%;
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Pred. No. 4.2e-103;
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                               GGACTGCGT-GGAGATCTATATCAAGAGAAACAAAGATGCAGGCAAATGGAACGATGACG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Life Technologies catalog #: 11547-015
DNA Sequencing by: Washington University Genome Sequencing Center
Clone distribution: NCI-CGAP clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AI434388 478 bp mRNA EST 30-MAR-1999 ti48g06.x1 NCI_CGAP_Lym12 Homo sapiens cDNA clone IMAGE:2133754 3'similar to gb:X16150_cds1 L-SELECTIN PRECURSOR (HUMAN);, mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
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Unpublished (1997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; E
Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
1 (bases 1 to 478)
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AI434388.1 GI:4295831
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National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
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Location/Qualifiers
                                                                                             Conservative
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                                                                                                                                                                                    /note="organ: lymph node: Vector: pCMV-SPORT6; Site_1: SalI; Ste_2: NotI; Cloned unidirectionally. Primer: Oligo dT. Average insert size 1.25 kb. Life Technologies catalog #: 11547-015"

a 90 c 98 g 139 t 1 others
                                                                                                                                                                                                                                                                                                           /organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:2133754"
/clone="IMAGE:2133754"
/clone="ID="NCI_CGAP_Lym12"
                                                                                                                                                                                                                                                                    /lab_host-"DH10B"
                                                                                                                                                                                                                                                                                                 /tissue_type="lymphoma, follicular mixed
                                                                                                          17.8%;
97.1%;
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                                                                                                                                                                                                                                                                                                                                                                                                      Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
This clone is available royalty-free through LLNL;
IMAGE Consortium (info@image.llnl.gov) for further i
Insert Length: 1429 Std Error: 0.00
Seg primer: -40UP from Gibco
High quality sequence stop: 458.
Location/Qualifiers
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National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
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/note="Organ: pooled; Vector: pT7T3D-Pac (Pharmacia) with a modified polylinker; Site_1: Not I; Site_2: Eco RI; Equal amounts of plasmid DNA from three normalized libraries (fetal lung NbHL19W, testis NHT, and B-cell NCI_CGAP_GCB1) were mixed, and ss circles were made in vitro. Following HAP purification, this DNA was used as tracer in a subtractive hybridization reaction. The driver was PCR-amplified cDNAs from pools of 5,000 clones made from the same 3 libraries. The pools consisted of I.M.A.G.E. clones 297480-302087, 682632-687239, 726408-728711, and 729096-731399. Subtraction by Bento Soares and M. Fatima Bonaldo. "
                                                                                                                                                                                                                                                                                                /organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="ImAGE:2331078"
/clone=1ib="Soares_NFL_T_GBC_S1"
                                                                                                                                                                                                                                                                                 /lab_host="DH10B"
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Fax: +55-11-2707001
Email: asimpsoneludwig.org.br
Email: asimpsoneludwig.org.br
This sequence was derived from the FAPESP/LICR Human Cancer Genome
Project. This entry can be seen in the following URL
(http://www.ludwig.org.br/scripts/gethtml2.pl?tl=CM1&t2=CM1-MT0238
141200-653-a12&t3=2000-12-14&t4=1)
                                                                                                                           Laboratory of Cancer Genetics
Ludwig Institute for Cancer Research
Rua Prof. Antonio Prudente 109, 4 and
                                                                                                                                                                                                                                                                      Nagai,M.A., da Silva,W. Jr., Zago,M.A., Bordin,S., Costa,F.F., Goldman,G.H., Carvalho,A.F., Matsukuma,A., Barustein,A., deOliveira,P.S., Bucher,P., Jongeneel,C.V., O'Hare M.J., Soares,F., Brentani,R.R., Reis,L.F., de Souza,S.J. and
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CM1-MT0238-141200-653-a12 MT
                                                                                             Tel: +55-11-2704922
                                                                                                                                                                           Contact: Simpson A.J.G.
                                                                                                                                                                                                                         sequence tags
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                                                                                                                                                                                                                                                       Simpson, A.J.
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Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S.,
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                                                    GATTIGGGGATCATGAACTGTAGCCATCCCCTGGCCAGCTTCAGCTTTACCTCTGCATGT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /dev_stage="Adult"
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIE

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Query Match 100.0%; Score 2259; DB 9; Length 2259;	AUTHORS Lasky, L.A., Rosen, S.D., Stachel, S.E. and Singer, M.S. TITLE Soluble lymphocyte homing receptors JOURNAL Patent: US 5840844-A 1 24 NOV-1998; FEATURES Location/Qualifiers source 1. 2259 BASE COUNT 635 a 517 c 488 g 619 t ORIGIN	AR060685 2259 bp DNA PAT 2 N Sequence 1 from patent US 5840844. AR060685 AR060685.1 GI:5987135 Unknown. M Unknown. Unclassified. 1 (bases 1 to 2259)	RESULT 1	295.6 13.1 3939 7 DOGESELECT 294.8 13.1 3142 10 136305 294.8 13.1 3142 97 HUMGMP140 294.6 13.0 2749 7 OCU39446 291.4 12.9 3185 95 RATPSELECT 290.8 12.9 5076 94 MUSLHR2	313.6 13.9 2569 7 SHPPSE 310 13.7 1833 10 I43650 310 13.7 3834 9 ARI104476 310 13.7 3834 97 HUMELANIA 310 13.7 3854 10 I43649 310 13.7 3856 97 HUMELANIA 309 13.7 2703 7 BOYDS 300.4 13.3 2391 7 DOGGMP140A	844.8 37.4 1580 95 S79523 827.8 36.6 1479 94 MUNLHRR 820 36.3 1431 94 MUSMLHRCB 818.4 36.2 1431 94 MUSMLHRCA 794.4 35.2 1272 95 RATLECAM1 385.2 17.1 531 9 AR040721 385.2 17.1 531 9 AR04064 385.2 17.1 531 9 AR054064	7 OCUZ6535 92 HS117P20 7 BTLECAM1 54 G06371 9 AR040727 9 AR054070 97 HUMLYAM9 94 MUSLHR 9 AR0686	2087.6 92.4 2330 93 HSLYAM1 1532.2 67.8 1569 93 HSRA246000 AJ 1351.2 59.8 1510 97 PHU52074 U5 1101.4 48.0 1119 97 PTU73728 U7 1085.4 48.0 1119 97 PPU73729 U7 1085.6 46.8 1119 97 PMU73730 U7
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/db_xref="taxon:9606"
/tissue_type="peripheral lymph node"
/cell_type="lymphocyte"
/clone_lib="cDNA in lambda gt10"
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REFERENCE AUTHORS TITLE

Homo Sapiens
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 2354)
Siggelman,M.H. and Weissman,I.L.
Siggelman,M.H. and Weissman,I.L.

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H.Siegelman, 02-JUN-1989.
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/db_xref="GI:307134"

/ttanslation="MIFPWKCQSTQRDLWHIFKLWGWTMLCCDFLAHHGTDCWTYHYS

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CPMSCSGHGETINLTGIEETTCGFFGNWSSPEPTCQVIQCEBLSAPDLGIMNCSHPL

ASESTSACTFICSEGTELIGKKKTICESSGIMSNPSPICQKLDKSFSMIKEGDYNPL

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                                                     GTGGAATATAAAGATGGCTGACTTTGCTCTTTCTTGACTCTTGTTTTCAGTTTTCAATTCA 1582
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ACCESSION
VERSION
KEYWORDS
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AUTHORS
TITLE
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Leu-8/TQ1 is the human e
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                                                                                                                                                                            Nature 342 (6245),
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                                                                                                                                                                                                                                                                             antigen;
                                                                                                                                                                                               receptor
                                                                                                                                                                                                                                                          Homo sapiens
/translation="mgcrrtregpskamiepwkcqstqrdlwnieklwgwtmlccdel
AHHGTDCWTYHYSEKPMNWQRARRECRDNYTDLVAIQNKAEIEYLEKTLPFSRSYYWI
                      /product="Leu-8 antigen short form"
/protein_id="CAB43537.1"
/db_xref="GI:4902830"
                                                                                /evidence=experimental join(1..1078,1515..2323) /note="short form"
                                                                                                                                                                                                                                                                            glycoprotein;
                                                             /evidence=experimental
join(50. .1078,1515. .1577)
                                                      /codon_start=1
                                                                                                                                   /organism="Homo sapiens"
/db_xref="taxon:9606"
                                                                                                                                                                 Location/Qualifiers
                                                                                                                 /note="long form"
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AGCCCTCTGTTACACAGCTTCTTGCCAGCCCTGGTCATGCAGTGGGCCATGGAGAATGTGT
                                                                                   TATCAAGAGAAACAAAGATGCAGGCAAATGGAACGATGACGCCTGCCACAAACTAAAGGC
                                                                                                                                  GAACTGGGGAGATGGTGAGCCCAACAACAAGAAGAACAAGGAGGACTGCGTGGAGATCTA
                                                                                                                                                      GAAGATAGGAGGAATATGGACGTGGGTGGGAACCAACAAATCTCTCACTGAAGAAGCAGA
                                                                                                                                                                                                    GAAGATAGGAGGAATATGGACGTGGGTGGGAACCAACAAATCTCTCACTGAAGAAGCAGA
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                                                                   TATCAAGAGAAACAAAGATGCAGGCAAATGGAACGATGACGCCTGCCACAAACTAAAGGC
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/protesin_id="CAB43536.1"
/protesin_id="CAB43536.1"
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/db_xref="GI:4902829"
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AHHGTDCWTYHYSEKPMNWQRARRFCRDNYTDLVAIQNKAEIEYLEKTLPFSRSYYWI
GIRKIGGIWTWYGTNKSLTEEAENWGDGEPNNKKNKEDCVELYIKRNKDAGKWNDDAC
HKLKAALCYTASCQPWSCSGHGEVEEIINNYTCNCDVGYYGPQCQFVIQCEPLEAPEL
GTMDCTHSLGNRSFSSQCAFSCSSGTNLTGIBETTGGPFGNWSSPEPTQQVIQCEPLS
APDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKTICESSGIWSNPSPICQKLDK
SPSMIKEGDYNPLFIPVAVMVTAFSGLAFIIWLARRLKKGKKSKRSNNDPY"
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/note="Leu-8 is the human hor
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          GATCAAATTTCACGTCGTCTTCTGTATACTGTGGAGGTACACTCTTATAGAAAGTTCAAA 1721
                                     ACACTTCTAAATGAAGTGCAAATTTGATACATATGTGAATATGGACTCAGTTTTCTTGCA
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CCCTTTGGCAAGGACCTGAGACCCTTGTGCTAAGTCAAGAGGCTCAATGGGCTGCAGAAG
                                     AACTAGAGAAGGACCAAGCAAAGCCATGATATTTCCATGGAAATGTCAGAGCACCCAGAG
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                               AACTAGAGAAGGACCAAGCAAAGCCATGATATTTCCATGGAAATGTCAGAGCACCCAGAG
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Sequence
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Tedder, T.F. and Spertini, O.G.
Anti-LAM 1-3 antibody and hybridoma
Patent: US 5776775-A 1 07-JUL-1998;
Location/Qualifiers
1. .2330
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1303 1266	TTAAATCGCCCTTGGTGAAAGAAATTCTTGGAATACTAAAAATCATGAGATCCTTTAAA 	1244 1207	Db Qy
1243 1206	TTGGCTGGCAAGGAGATTAAAAAAAGGCAAGAAATCCAAGAGAAGTATGAATGA	1184 1147	Ωу
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1063 1026	AACTGAGTTAATTGGGAAGAAGAAAACCATTTGTGAATCATCTGGAATCTGGTCAAATCC	1004 967	Db Qy
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823 786	CCCTTTGGAAACTTCAGCTTC		рβ
763 726	TCAGTGTGAGCCTTTGGAGGCCCCAGA TCAGTGTGAGCCTTTGGAGGCCCCAGA		Db
703	AGAAATCATCAATAATCACACCTGCAACTGTGATGTGGGGTACTATGGGCCCCAGTGTCA 	644	Db Qy
643 606	AGCCCTCTGTTACACAGCTTCTTGCCAGCCCTGGTCATG	4- 00	Дb
583 546	TATCAAGAGAAACAAAGATGCAGGC		Оу
523 486	A GAACTGGGGAGATGGTGAGCCCAACAACAAGAAGAACAAGAAGAAGACTGCGTGGAGATCTA	464 427	Db Qy
463 426	4 GAAGATAGGAGGAATATGGACGTGGGTGGGAACCAACAATCTCTCACTGAAGAAGCAGA 	4 04 367	Db Qy
403 366	4 AATTGAGTATCTGGAGAAGACTCTGCCCTTCAGTCGTTCTTACTACTGGATAGGAATCCG	344 307	4d 4d
343 306	4 GGCTAGAAGATTCTGCCGAGACAATTACACAGATTTAGTTGCCATACAAAACAAGGCGGA 	284 247	Qу
283 246	4 ACATCATGGAACCTACTGCTGGACTTACCATTATTCTGAAAAACCCATGAACTGGCAAAG 	224 187	Db Db

RESULT 6
AR040718
LOCUS
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ACCESSION
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VERSION
KEYWORDS
SOURCE

Unknown.

AR040718 2330 bp DNA Sequence 1 from patent US 5808025. AR040718 AR040718.1 GI:5960081

PAT

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TCCCTCAACCCCAC 2193	H-J -	216	В
TCCCTCAACCCCAC 2235	2 TTTAAATTTCATCTCAGGCCTCCCTCAACCCC	220	Qy
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CCCCAGAACTTTTATCCACTTACCTAGATTCTACATATTC 2201	2 AATGCTCTCCTTTCCCCTGC	214	δÕ
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GTTTGGGGGTTTTGCTGTTTCATGAGACCCATTCCTATTCTTATAGTCAATGT 1979	O 20 -	192	Ъ
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GCAAAAGGAGAAGAAAATAGCCTGCGCTGTTTTTT 1919	0 TAGCATCTCATG	186	뮍
AGTGCCAAGCAAAAGGAGAGAGAGAGAGAGAGTGCCTGCGCGGTTTTTT 1961	2 TAGCATCTCATG	190	QΥ
GCCTCCCCACCTTCTTCAGCCACCTCTCTTTTTCAGTTGGCTGACTTCCACACC 1859	1 CTTCA-	180	В
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AAGAGTCCTATTTGCACTGTAGCCTCGCCGTCTGTGAATTTGGACCCTATTTAACTGG 1800	1	174	Д
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AAGTCTACGCTCTCCTTTCTTACTCCAGTGAAGTAATGGGGTCCTGCTCAAGTTGA 1740	Ė	168	Ъ
TITCTAACTCCAGTGAAGTAATGGGGTCCTGCTCAAGTTGA 1781	2	172	Qy
GTCGTCTTCTGTATAC-GTGGAGGTACACTCTATGAAGTCAA 1680	7 GATCAAATTTCGC	162	멍
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ACACTTCTAAATGAAGTGCAAATTTGATACATATGTGAATATGGACTCAGTTTTCTTGCA 1626	7	156	Дb
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AAGACCATAAAGGGAAAGGATTCATGTGGAATATAAAGATGGCT 1506	47 CTGAGGAGAAACAAATAAG	14	B
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CCCCTTTGGAAACTTCAGCTTCAGCTCACAGTGTGCCTTCAGCTGCTCTGAAGGAACAA 823
                                                                                    GCTTGTGATTCAGTGTGAGCCTTTGGAGGCCCCAGAGCTGGGTACCATGGACTGTACTCA 763
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Chimeric selectins as simultaneous blocking selectin function
Patent: US 5808025-A 1 15-SEP-1998;
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,	AAGTCTACGCTCTCCTTTCTTACTCCAGTGAAGTAATGGGGTCCTGCTCAAGTTGA AAGAGTCCTATTTGCACTGTAGCCTCGCCGTCTGTGAATTGGACCATCCTATTTAACTGG	GATCAAATTTCACGTCGTCTTCTGTATACTGTGGAGGTACACTCTTATAGAAAGTTCAAA	GACTTTGCTCTTTGACTCTTGTTTTCAGTTTCAGTTTCAGTGCTGTGACAGGACAGGACTTGACAGGACAGGACTTTGATGACAGGACAGGACAGACTTTGCTTTCAGTTTCAGTTTCAGTTTCAGTTCAGTGCTGATGACAGGACAGGACTTTGCTTTCTTGATGATACATATGTGATACAGTTTCAGTTTCTTGCAGATATGACTCAGTTTTCTTTGCAGACTCTAAATGAAGTGCAAATTTGATACATATGTGAATATGGACTCAGTTTTCTTGCAGATTTTCTTGCAGATTTTCTTGCAGATTTTCTTGCAGATATGGACTCAGTTTTCTTGCAGACTCTCAGATATGGACTCAGTTTTCTTGCAGACTCTCAGATATGGACTCAGTTTTCTTGCAGACTCTCAGATATGGACTCAGTTTTCTTGCAGATATGTGAATATGGACTCAGTTTTCTTGCAGACTCTGCAGTTTTCTTGCAGACTCTGAATGATGAAGATATGGACTCAGTTTTCTTGCAGACTACATATGTGAATATGGACTCAGTTTTCTTGCAGACTACATATGTGAATATGGACTCAGTTTTCTTGCAGACTACATATGTGAATATGGACTCAGTTTTCTTGCAGACTACATATGTGAATATGGACTCAGTTTTCTTTC	CTCATTTATO CTCATTTATO CTGAGGAGAI	TCCTTCCATGAI	TTGGCTGGCA/	TAGTCCAATATGTCAAAAATTGGACAAAAGTTTCTCAATGATTAAGGAGGTGATTATAA	TAGCCATCCCCTGGCCAGCTTCAGCTTTACCTTCGCATCTACCTTCATCTCCCTCAGANGE TAGCCATCCCCTGGCCAGCTTCAGCTTTACCTTCGCATCTACCTTCATCTCCTCAGANGE TAGCCATCCCCTGGCCAGCTTCAGCTTTACCTCTGCATGTACCTTCATCTTGCTCAGANGG AACTGAGTTAATTGGGAAGAAGAAAACCATTTGTGAATCATCTGGAATCTGGTCAAATCC AACTGAGTTAATTGGGAAGAAGAAAACCATTTGTGAATCATCTGGAATCTGGTCAAATCC	AACCTGTCAAGTGATTCAGTGTGAGCCTCTATCAGCACCAGATTTTGGGGATCATGAACTG -
CTTCAGGCCTCCCCACCTTCTTCAGCCACCTCTCTTTTTCAGTTGGCTGACTTCCACACC	CTCTCCTT	ICACGTCGT II ICGCGTCGT III	CTTTCTTGA	ATTTATCCCTCAACCCCAGCCCACAG	2-2 2-2	GGCTGGCAAGGAGATTAAAAAAAAGGCAAGAAATCCAAGAGAAGTATGAATGA	ITCCAATATGTCAAAAATTGGACAAAAGTTTCTCAATGATTAAGGAGGGGTGATTATAA	CCTGGCCAC CCTGGCCAC CCTGGCCAC CCTGGCCAC	AGTGATTC! AGTGATTC!
TCTTCAGC	CTTTCTAA GTAGCCTC	CTTCTGTA CTTCTGTA 	CTCTTGTT CTCTTGTT CTCTTGTT CAAATTTG	CCCAGCCC CCCAGCCC CCCAGCCC CGACCAT-A CGACCATAA	ACGTTTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTG	PAAAAAAAG PAAAAAAAA PAAAAAAAAT PAAGAAAAT PAAGAAAAT	NATTGGACA NATTGGACA RGGCAGTCA	GCTTCAGCT	AGTGTGAGC AGTGTGAGC
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1 (bases 1 to 2330)

1 (bases 1 to 2330)

Tedder, T.F. and Kansas, G.S.

Use of chimeric selectins as simultaneous blocking agents component selectin function
component selectin function
Patent: US 5834425-A 110-NOV-1998;
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Sequence 1 from patent US
AR054061
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Pred. No. 0;
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                                                              1 (bases 1 to 2330)
Tedder, T.F. and Spertini, O.G.
Methods of blocking adhesion with anti-lami-3
Patent: US 5679346-A 1 21-OCT-1997;
Location/Qualifiers
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Sequence 1 from patent
I70140
I70140.1 GI:3006275
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1123	TAGTCCAATATGTCAAAAATTGGACAAAAGTTTCTCAATGATTAAAGGAGGGTGATTATAA	1064	Оу
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1063	AACTGAGTTAATTGGGAAGAAGAAAACCATTTGTGAATCATCTGGAATCTGGTCAAATCC	1004	dd
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100 3	TAGCCATCCCCTGGCCAGCTTCAGCTTTACCTCTGCATGTACCTTCATCTGCTCAGAAGG	944	Qy
966		907	Db
943	AACCTGTCAAGTGATTCAGTGTGAGCCTCTATCAGCACCAGATTTGGGGATCATGAACTG	884 847	Qу
883	CTTAACTGGGATTGAAGAAACCACCTGTGGACCATTTGGAAACTGGTCATCTCCAGAACC	824	Qy
846		787	Db
823 · 786	CCCCTTTGGAAACTTCAGCTTCAGCTCACAGTGTGCCTTCAGCTGCTCTGAAGGAACAAA	764 727	Qy
763 726	GCTTGTGATTCAGTGTGAGCCTTTGGAGGCCCCAGAGCTGGGTACCATGGACTGTACTCA	704 667	Оу
703	AGAAATCATCAATAATCACACCTGCAACTGTGATGTGGGGTACTATGGGCCCCAGTGTCA	644	Qy Db
643	AGCCCTCTGTTACACAGCTTCTTGCCAGCCCTGGTCATGCAGTGGCCATGGAGAATGTGT	584	Qy
606		547	Db
583	TATCAAGAGAAACAAAGATGCAGGCAAATGGAACGATGACGCCTGCCACAAACTAAAGGC	524	Qy
546		487	Db
523	GAACTGGGGAGATGGTGAGCCCAACAACAAGAAGAACAAGGAGGACTGCGTGGAGATCTA	464	Оу
486		427	
463	GAAGATAGGAGGAATATGGACGTGGGTGGGAACCAACAAATCTCTCACTGAAGAAGCAGA	404	Qy
426		367	Db
403 366	AATTGAGTATCTGGAGAAGACTCTGCCCTTCAGTCGTTCTTACTACTGGATAGGAATCCG	344 307	Оу
343	GGCTAGAAGATTCTGCCGAGACAATTACACAGATTTAGTTGCCATACAAAACAAGGCGGA	284	Qy
306		247	Db
283	ACATCATGGAACCTACTGCTGGACTTACCATTATTCTGAAAAACCCATGAACTGGGAAAG	224	Qy
246		187	Db
223 186	GGACTTATGGAACATCTTCAAGTTGTGGGGGTGGACAATGCTCTGTTGTGATTTCCTGGC	164 127	Оу
163	AACTAGAGAAGGACCAAGCAAAGCCATGATATTTCCATGGAAATGTCAGAGCACCCAGAG	104	Qy
126		67	Db
103	CCTTTGGCAAGGACCTGAGACCCTTGTGCTAAGTCAAGAGGCTCAATGGGCTGCAGAAG	44	Qy Db
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Matches 2161; Conservative
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                                             CCCTTTGGCAAGGACCTGAGACCCTTGTGCTAAGTCAAGAGGCTCAATGGGCTGCAGAAG
AACTAGAGAAGGACCAAGCAAAGCCATGATATTTCCATGGAAATGTCAGAGGACCCAGAG
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89310350
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
1 (bases 1 to 2330)
Tedder, T. F.
Direct Submission
Submitted (09 NOV-1989) Tedder T. F
2 (bases 1 to 2330)
Tedder, T. F., Isaacs, C.M., Ernst, T.J., Demetri, G.D., I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Isolation and chromosomal localization of cDNAs encoding
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92. .1210
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344)"
2296. .2301
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ASFSFTSACTFICSEGTLIGKKTICESSGIWSNPSPICOKLDKSFSMIKEGDYNPL
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176. .1207
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1183 1146	24 CCCCCTCTTCATTCCAGTGGCAGTCATGGTTACTGCATTCTCTGGGTTGGCATTTATCAT	112
1123 1086)64 TAGTCCAATATGTCAAAAATTGGACAAAAGTTTCTCAATGATTAAAGGAGGGTGATTATAA 	106
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1003 966	344 TAGCCATCCCCTGGCCAGCTTCAGCTTTACCTCTGCATGTACCTTCATCTGCTCAGAAGG	9(
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643 606	84 AGCCCTCTGTTACACAGCTTCTTGCCAGCCCTGGTCATGCAGTGGCCATGGAGAATGTGT	5.2
583 546	524 TATCAAGAGAAACAAAGATGCAGGCAAATGGAACGATGACGCCTGGCACAAACTAAAGGC 	4 5
523 486	164 GAACTGGGGAGATGGTGAGCCCAACAACAAGAAGAACAAGAGGAGGACTGCGTGGAGATCTA 	4 4
463 426	104 GAAGATAGGAGGAATATGGACGTGGGTGGGTAGCAACAAATCTCTCACTGAAGAAGCAGA 	3 6
403 366	344 AATTGAGTATCTGGAGAAGACTCTGCCCTTCAGTCGTTCTTACTACTGGATAGGAATCCG 	30
343 306	84 GGCTAGAAGATTCTGCCGAGACAATTACACAGATTTAGTTGCCATACAAAACAAGGCGGA 	2 2
283 246	224 ACATCATGGAACCTACTGCTGGACTTACCATTATTCTGAAAAACCCCATGAACTGGCAAAG	18
223 186	164 GGACTTATGGAACATCTTCAAGTTGTGGGGGTGGACAATGCTCTGTTGTGATTTCCTGGC	17 16
126	67 AACTAGAGAAGGACCAAGCAAAGCCATGATATTTCCATGGAAATGTCAGAGCACCCAGAG	

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PRI			ACCTAGATTCTAC	ACCTAGATTC	GTGGAGAAATTCCTTGATTC	ATTCCTTGAT	ATGCTAGCTG	ACTGAAATGCTAGCTG	TATTTCTTAT	TATTTCTTAT	చ=	- 6 - 6	GCTGAC	CAGTTGGCTGAC	GACCATCCTA	GACCATCCTA	GGGGTCCTGC	GGGGTCCTGC	CTCTA	ATAG	VIGGACTCAGE	VIGGACTCAGI	GTGCTGTACT	GTGCTGTACT	GTGGAATATA	GTGGAATATA	GCTCAGCTTT	AGCTCAGCTTT	TTCAGCTTCC	TTCAGCTTCC	PANACATGAAG	AAACATGAAG	AATCATGAG <i>I</i> AATCATGAG <i>I</i>
08-SEP-19			TACATATTC	Ą	ACAATG	- 8	CAACTGAC	CAAGTGACA	AGTCAATG	AGTCAATGT	CTGTTTTTT	CGGTTTTTT	TTCCACACC	TTCCACACC	TTTAACTGG	ATTTAACTGG	TCAAGTTGA	GTTG	TGAAGTCAA	AAAGTTCAAA	TTTCTTGCA	TTTCTTGCA	TGATGACAG	TGATGACAG	AAGATGGCT	AAGATGGCT	TTGTCTTTT	TTGTCTTTT	CACC	- 0	AAGTGTGTTTCC	FIGTG-TTCC	ATCCTTTAAA ATCCTTTAAA
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Best Local Similarity
Matches 1559; Conserv
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                                                              AACATCTTCAAGTTGTGGGGGTGGACAATGCTCTGTTGTGATTTCCTGGCACATCATGGA 233
                                                                                                                               GGACCAAGCAAAGCCATGATATTTCCATGGAAATGTCAGAGCACCCAGAGGGACTTATGG 173
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Direct Submission

Submitted (04-SEP-1999) Fieger C.B., Benjamin Franklin Klinikum der Freien Universitaet Berlin, Institut fuer Klinische Chemie & Pathobiochemie, Hindenburgdamm 30, 12200 Berlin, GERMANY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Thesis (1998) Freie Universtiaet Berlin, Fachbereich Chemie
2. (bases_1 to 1569)
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Mammalia; Eutheria; Primates;
1 (bases 1 to 1569)
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190. 1191
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/product="L-selectin"
1195. >1569
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37. .189
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37. .1194
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/tissue_lib="Raji cDNA library (Clontech HL1002a)"
/cell_type="burkitt lymphoma"
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99.4%;
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TATTAAATCGCC 1253 	AGGAGATTAAAAAAAGGCAAGAAATCCAAGAGAGAGTATGA	Qy 1194 Db 1141	
H — H	ATTCCAGTGGCAGTCATGGTTACTGCATTCTCTGGGTTGGCATTTATC		
AACCCCCTCT AACCCCCTCT	TGTCAAAAATTGGACAAAAGTTTCTCAATGATTAAGGAGGGTGATTAT		
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GGAACTGAGT GGAACTGAGT	CTGGCCAGCTTCAGCTTTACCTCTGCATGTACCTTCATCTGCTCAGAA 		
TGTAGCCATCCC 953	GTGATTCAGTGTGAGCCTCTATCAGCACCAGATTTGGGGATCATGAAC		
AACCAACCTGTCAA 893 	ATTGAAGAAACCACCTGTGGACCATTTGGAAACTGGTCATCTCCAGI		
AACTGGG 8 AACTGGG 7	ACTTCAGCTTCAGCTCACAGTGTGCCTTCAGCTGCTGCTGAAGGAAG	- '	
CACCCTTTGGA 773	4 CAGTGTGAGCCTTTGGAGGCCCCAGAGCTGGGTACCATGGACTGTACT 	71 66	
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a − a	4 AACAAAGATGCAGGCAAATGGAACGATGACGCCTGCCACAAAC 		
TATATCAAGA TATATCAAGA	4 GATGGTGAGCCCAACAACAAGAAGAACAAGGAGGACTGCGTGGAGAT 		
AGAGAACTGGGGA 473 AGAGAACTGGGGA 420	4 GGAATATGGACGTGGGTGGGAACCAACAATCTCTCACTGAAGAAGC 	Qy 41 Db 36	
CCGGAAGATAGGA 413 CCGGAAGATAGGA 360	4 CTGGAGAAGACTCTGCCCTTCAGTCGTTCTTACTACTGGATAGGAAT 	Qy 35 Db 30	
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Submitted (21-MAR
Inc., 2375 Garcia
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Cercopithecidae;
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/db_xref="G:1326149"
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SESSQCAFWCSEGTNLTGIEETTTCGFFGWMSSPEPTCQVIQCEPLSAFDLGIMNCSHPL
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ASFSFSSACTESCSGTPLIGENGTTCESSGTWSNPRDICQKLDRSFSMIKEGDYNPL
FIPVAVIVTAFSGLAFIIWLARRLKKGKKSKSMDDPY"

328 c 349 g 366 t
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/sub_species-"anubis"
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Pan troglodytes L-selectin mRNA,
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Tsurushita, N.
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                                                         Conservative
                                                                                                                                 /product="L-selectin"
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FSSQCAFSCSGTNLTGIEETTCGPFCNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPL
ASFSFTSACTFICSEGTELIGKKKTICESSGIWSNPSPICQKLDKSFSMIKEGDYNPL
FIPVAVMYTAFSGLAFIIWLARRLKKGKKSKRSMDDPY"

32 a 236 c 277 g 274 t
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Location/Qualifiers
                                                                                                                                                                                                                                                                                                                           /organism="Pan troglodytes"
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                                                                     48.8%;
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                                                      Score 1101.4; DB 9:
Pred. No. 5.6e-293;
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          GGCAAGAAATCCAAGAGAAAGTATGAATGACCCATATTAA 1247
                                                                                               AAAAGTTTCTCAATGATTAAGGAGGGTGATTATAACCCCCCTCTTCATTCCAGTGGCAGTC
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GGCAAGAATCCAAGAGAAGTATGGATGACCCATATTAA
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Best Local Similarity 98.3
Matches 1098; Conservative
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GTGGGAACCAACCACTCTCACTGAAGAAGCAGAGAACTGGGGAGATGGTGAGCCCAAC
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                                                 GTGGGAACCAACAATCTCTCACTGAAGAAGCAGAGAACTGGGGGAGATGGTGAGCCCAAC
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Pongo PY9
U73729
U73729.1
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Submitted (08-OCT-1996) Protein I
Avenue, Mountain View, CA 94043,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Budman,J.I., Fu,H., Johnson,C.E., Tsurushita,N.
Cloning of the cDNA encoding L-se
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pongo pygmaeus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae;

1 (bases 1 to 1119)
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OPWSCSGHGECVEIINNYTCNCDVGYYGDQCOPVIQCEPLEAELGTMDCTHPLGNES
CPWSCSGHGECVEIINNYTCNCDVGYYGDQCOPVIQCEPLSAELGTMCGHPLGNES
SSQCARNCSEGTNLTGGIEGTFCGFFGNWSSDEPTCOVIQCEPLSAEDLGIMCSHPL
ASFSFTSACTFICSEGTELIGKKKTICESSGIWSNPSPICQKLDKSFSMIKEGDYNPL
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a 233 c 273 g 277 t
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/db_xref="taxon:9600"
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Pred. No. 1.5e
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U73730
U73730.1 GI:1658015
Direct Submission
Submitted (08-OCT-1996) Protein Design
Avenue, Mountain View, CA 94043, USA
                                                                 Unpublished
2 (bases 1
                                                                                       Tsurushita, N. Cloning of the cDNA encoding
                                                                                                               Cercopithecinae; Macaca.
1 (bases 1 to 1119)
Budman, J.I., Fu, H., John
                                                                                                                                                      Eukaryota; Metazoa; Chordata; Mammalia; Eutheria; Primates;
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                                                   Budman,J.I.,
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/product="L-selectin"
/product="L-selectin"
/protein_id="AAB18246.1"
/db_xref="g1:1658016"
/translation="MIFPRKCQSTQRDLWNIFKLWGWTMLCCDELAHHGTDCWTYHYS
ENPMNWQKARRECRENYTDLVAIQNKAEIEYLEKTLPFSPSYYWIGIRKIGGIWTWVG
TNKSLTQEAENWGDGEPNKKNKEDCVELYIKRKKDAGKWNDDACHKPKAALCYTASC
GPWSCSGHGECVEIINNYTCNCDVGYYEPPCQFCPLEPPKLGTMDCTHPLGDFS
FSSQCAENCSECTNLTGLEETTCGPFGNWSSPEPTCQVIQCEPLSADLGIMCSHPL
ASFSFSSACTFSCSEGTELIGEKKTICESSGIWSNPNPICQKLDRSFSMIKEGDYNPL
FIPVAVWYTAFSGLAFIWLARRLKKGKKSKSMDDPY"
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                                                AGGATTCATGTGGAATATAAAGATGGCTGACTTTGCTTTTCTTGACTCTTGTTTTCAGT 1573
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Search completed: October 13, 2001, 01:41:07 Job time: 8562 sec

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AAR981122
AAR981154
AAR981124
                                                                                                                                                                                                                                                   SUMMARIES
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             Human Lymphocyte H
HuLHR. Homo sapie
Human LHR. Homo s
Human LHR. Homo s
Human Lymphocyte c
Homo sapiens lymph
Human lymphocyte h
Human lymphocyte c
Human lymphocyte c
Human lymphocyte c
                                                                                                                                                                                                 Description
 Sequence of human
                                                                                                                                                                                                                                                                                              to have a being printed,
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ALIGNMENTS

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RESULT
AAR37960
 Peptide
                                                                                                                                                                                                                         HuLHR; lymphocyte binding inhibition; lymphoma metastasis;
transplant rejection; inflammation.
          Modified-site
                                                                                          Modified-site
                                                                                                             Modified-site
                                                                                                                                 Domain
                                                                                                                                                                                  кеу
                                                                                                                                                                                                      Homo sapiens
                                                                                                                                                                                                                                                        Human Lymphocyte Homing Receptor
                                                                                                                                                                                                                                                                           08-OCT-1993 (first entry)
                                                                                                                                                                                                                                                                                                AAR37960;
                                                                                                                                                                                                                                                                                                                   AAR37960 standard; Protein; 372
                             Region
                                                 Modified-site
                                                                     Domain
                                                                                                                                                    Protein
                                                /label= EGF_domain
177..179
                                                                                       /label- Lectin_domain
60. 62
/note- "potential N-glycosylation site"
104.106
                                                                                                                                39..372
/note= "Trp39 is probable N-terminus of mature LHR" 39..155
          /label- Complement_Binding_Repeat_1 216..218
                             /note= "potential N-glycosylation site"
197..258
/note=
                                                                     160..193
                                                                                                                                                                                  Location/Qualifiers
                                                                               /note=
                                                                                                                                                             'label= signal_sequence
"potential N-glycosylation site"
                                                                             "potential N-glycosylation site"
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Matches
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Best Local :
                                                                                                                                                                                                                                                                      A human peripheral blood lymphocyte cDNA library in lambda gt10 was screened with a 2.2kb EcoRI insert of the murine Mel14 antigen clone (i.e. a murine LHR sequence). The largest EcoRI insert (2.2kb) was isolated and sequenced. The ORF codes for 372 amino acids with a mol wt. of approximately 42,200. Comparison of the HuLHR amino acid sequence with the murine LHR sequence (AAR37961) showed a high degree of amino acid conservation in each of the LHR domains, e.g. 96 in the transmembrane domain and 83% in the carbohydrate binding domain. The LHRs could be used to compete with the normal binding of lymphocytes to lymphoid tissue to treat inflammation or graft rejection. They could also be used to control lymphoma metastasis and to treat conditions involving lymphocyte accumulation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human and rejection
                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim
   181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             23-FEB-1989;
31-OCT-1991;
                          181
                                                  121
                                                                         121
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (GETH ) GENENTECH INC.
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                                                                                                 61
                                                                                                                         61
                                                                                                                                        ncdvgyygpqcqlviqcepleapelgtmdcthpfgnfsfssqcafscsegtnltgieett
            NCDVGYYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEETT
                                            NKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGEGVEIINNHTC
                                                                                          1993-188588/23.
DB; AAQ43154.
                                                                                                                                                                                             al Similarity
372; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                    Fig 1 and Fig 3; 32pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                        murine lymphocyte homing receptors to treat graft and inflammation - comprise carbohydrate binding, growth factor and complement binding domains
                                                                                                                                                                                                                                                       372 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Rosen SD,
                                                                                                                                                                                            100.0%;
ilarity 100.0%;
Conservative 0
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91US-0786149
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333..3
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356..372
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271..273
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "potential N-glycosylation site"
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                                                                                                                                                                                                       Score 2116; DB 14;
Pred. No. 5.4e-141;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           transfer sequence"
                                                                                                                                                                                            Mismatches
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                                                                                                                                                                                          0,
                                                                                                                                                                                         Gaps
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 240
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The sequences cell surface of

s given in AAI glycoprotein

in AAR38908-09 represent human and rotein (LHR) respectively. These pages of the page of t

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В Qγ

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RESULT

AAR38908

ID AAR3

XX AAR3

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XX HULH

XX HULH

XX HUR;

KW LHR;

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                                                                                                                                                                                                                                                                                                                                                 23-FEB-1989;
22-NOV-1989;
16-DEC-1991;
                                                               Disclosure; Fig 1; 44pp;
                                                                                                        New lymphocyte homing receptor immunoglobulin fusion polypeptide(s) - used to inhibit binding of lymphocytes therapeutic and diagnostic uses
                                                                                                                                                                                                                      WPI; 1993-226664/28.
                                                                                                                                                                                                                                                                 Capon DJ,
                                                                                                                                                                                                  N-PSDB; AAQ44243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human; murine; lymphocyte; cell surface glycoprotein; homing receptor; LHR; endothelium; lymphoid tissue; signal; domain; complement binding; carbohydrate binding; epidermal growth factor-like; egf; intracellular; transmembrane binding; cytoplasmic; ligand binding partner protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                        23-FEB-1989;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Domain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Domain
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Peptide
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                                                                                                                                                                                                                                                               Lasky LA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              standard;
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89US-0440625
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356..37
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197..3
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                                                               English.
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RESULT
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Best Local
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                                                                                                                                              Key
Peptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      the binding of lymphocytes to the endothelium of lymphoid tissue. LHR is a glycoprotein which contains a signal domain, a carbohydrate binding domain, an epidermal growth factor-like (egf) domain, at least one complement binding domain repeat, a transmembrane binding domain (TMD) and a charged intracellular or cytoplasmic domain. The murine and human amino acid sequences show a high degree of overall homology (83%), however degrees of homology between the various domains is variable. These proteins may be fused to a ligand binding partner protein (LBPP) which causes an increase in the half life of the LHR. The fusions may be used therapeutically to compete with the normal binding of lymphocytes to lymphoid tissue. They may be used in organ
                                                                                                                                                                                                                                                                       Lymphocyte homing receptor; lymphocyte cell surface glycoprotein; LHR; ligand binding partner; immunoglobulin; constant region; antibody engineering; immunomodulator.
                                                                                                                                                                                                                                                                                                                                                                                                                           01-DEC-1995
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1 MIFPWKCQSTQRDLWNIFKLWGWTMLCCDFLAHHGTYCWTYHYSEKPMNWQRARRFCRDN
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GKKSKRSMNDPY 372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNHTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 YTDLVAIQNKAEIEYLEKTLPESRSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGDGEPN 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NCDVGYYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEETT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ytdlvaiqnkaeieylektlpfsrsyywigirkiggiwtwvgtnkslteeaenwgdgepn
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              372;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      rejection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        372 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            100.0%; ilarity 100.0%; Conservative 0
                                                                                                                                                                                                                                                                                                                                                                                                                           (first
39..372
label- N
                                                                                               /label-
/note- "
                                                                                                                                              Location/Qualifiers 20..32
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Protein; 372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      and for the treatment of inflammation.
                                                                                                                                                                                                                                                                                                                                                                                                                           entry)
                                           " Sig_peptide
"hydrophobic domain, may
for insertion into the
  reticulum lumen"
Mat_protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 2116; DB 14;
Pred. No. 5.4e-141;
; Mismatches 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DB 14;
                                                                                                  may act
                                                                     y act as signal endoplasmic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 372;
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Best Local Similarity
Matches 372; Conser
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16-DEC-1991;
08-DEC-1992;
                                                                                                                                                                                                               A murine Mel 14 antigen cDNA clone was used to screen a lambda gtl0 cDNA library derived from human peripheral blood lymphocyte mRNA obtd. from primary cells. A cDNA clone encoding LHR was isolated.
                                                                                                                                                                                                                                                     Disclosure; Fig.la-lc;
                                                                                                                                                                                                                                                                                   New hybrid ligand binding constant region sequences
                                                                                                                                                                                                                                                                                                                N-PSDB; AAQ92802
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           181
                             121
                                               121
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NCDVGYYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEETT
                                                                                                     YTDLVAIQNKAEIEYLEKTLPFSRSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGDGEPN 120
                                                                                                                                                                                                                                                                                                                          1995-240086/31.
                            nkknkedcve1y1krnkdagkwnddachklkaalcytascqpwscsghgecve11nnhtc
                                               NKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNHTC
                                                                   ytdlvaiqnkaeieylektlpfsrsyywigirkiggiwtwvgtnkslteeaenwgdgepn
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                                                                                                                                                                                                                                                                                                                                              Lasky LA;
                                                                                                                                               Conservative
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89US-0315015.
91US-0808122.
92US-0986931.
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60..62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /label= N-glycosylation_site 177...179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     358..372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /label- N-glycosylation_site 
246..248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /note-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /label= N-glycosylation-site
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                                                                                                                                                       100.0%;
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.313
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                                                                                                                                                                                                                                                     40pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "putative extracellular
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "putative intracellular region"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                N-glycosylation_site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          N-glycosylation_site
                                                                                                                                                                                                                                                                                    partner molecules - fused
to increase stability and
                                                                                                                                              0;
                                                                                                                                              Score 2116; DB 16;
Pred. No. 5.4e-141;
0; Mismatches 0;
                                                                                                                                                                                                                                                     English.
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RESULT
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22-NOV-1989;
23-FEB-1989;
16-DEC-1991;
08-DEC-1992;
21-JAN-1994;
                                                   23-FEB-1989;
                                                                   03-OCT-1995
                                                                                                             Modified-site
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                                                                                                                                                                                                                                                                         Domain
                                                                                                                                                                                                                                                                                                          Domain
                                                                                                                                                                                                                                                                                                                                                                                Lymphocyte cell surface glycoprotein; LHR; transmembrane receptor; immunoglobulin; IgG; constant region; receptor-mediated disease; vector; plasma-life.
                                                                                                                                                                                                                               Modified-site
                                                                                                                                                                                                                                                                                                                          Domain
                                                                                                                                                                                                                                                                                                                                                   Key
                                                                                                                                                                                                                                                                                                                                           Peptide
                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAR83050 standard; Protein; 372
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         {\tt ncdvgyygpqcqlviqcepleapelgtmdcthpfgnfsfssqcafscsegtnltgieett}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GKKSKRSMNDPY 372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKK
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        89US-0440625.
89US-0315015.
91US-0808122.
92US-0986931.
                                                   89US-0315015
                                                                                                                                                                             /label= N
216..218
                                                                                                                                                                                              /label= N
177..179
                                                                                                              311..313
                                                                                                                                                              /label= N-glycosylation_site 232..234
                                                                                                                                                                                                                    /note= "potential stop trans 60..62 /label= N-glycosylation_site
                                                                                                                                                                                                                                              356..372
/label= (
                                                                                                                                                                                                                                                                        /label=
333..355
                                                                                                                                                                                                                                                                                        /label=
197..317
                                                                                                                                                                                                               104..106
                                                                                                                    /label=
                                                                                                                                   /label= N-glycosylation_site
                                                                                                                                                                                                                                                                                                         160..193
                                                                                                                                                      'label=
                                                                                                                                                                                                                                                             /label= Transmembrane_binding_domain
                                                                                                                                                                                                                                                                                                             /label= Carbohydrate_binding_domain
                                                                                                                                                                                                                                                                                                                                                 location/Qualifiers
                                                                                                                                                                                                                                                                                                                                 'label=
 -0185669
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                                                                                                                  _N-glycosylation_site
                                                                                                   N-glycosylation_site
                                                                                                                                                   N-glycosylation_site
                                                                                                                                                                                    N-glycosylation_site
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                                                                                                                                                                                                                                                                             Complement_factor_binding_domain
                                                                                                                                                                                                                                                                                             _Epidermal_growth_factor_domain
                                                                                                                                                                                                                                               Cytoplasmic_domain
                                                                                                                                                                                                                                                                                                                              Sig_peptide
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RESULT
AAR98106
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XX DT 31-C
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Best Local S
Matches 372
                     metastasis.
                              Immunoglobulin; transmembrane receptor; adhesion; targetting; diagnosis; therapy; drug delivery; antiviral; neuromodulator; immunomodulator; cell adhesion; graft rejection; inflammation
                                                                                               31-OCT-1996
                                                                                                                     AAR98106
                                                                                                                                        AAR98106 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A mouse LHR (lymphocyte cell surface glycoprotein) cDNA clone was us to screen an oligo-dT primed lambda gtl0 cDNA library derived from human peripheral blood lymphocyte mRNA obtd. from primary cells. A 2.2 kb clone (sequence given in AAT05869) was isolated that encoded human LHR protein (AAR83050). LHR-IgG hybrids were constructed for in the targeting of therapeutic moieties to lymphoid tissue.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Expression vector encoding fusion protein to increase plasma life comprises receptor ligand binding site and Ig constant region, for treatment of receptor mediated disease
                                                                                                                                                                                                                   361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; Fig 1; 42pp; English.
                                                                                                                                                                                              361 gkkskrsmndpy 372
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                                                                                                                                                                                                                                   TICESSGIWSNPSPICQKLDKSFSMIKEGDYNPLFIPVAVMVTAFSGLAFIIWLARRLKK
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        372 AA;
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                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                        cell
                                                                                                                                         Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            100.0%;
                                                                        surface
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                                                                       glycoprotein
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Pred. No. 5
                            graft rejection; inflammation;
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                                                                       (HuLHR).
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                                                                                                                             A hybrid immunoglobulin chain comprising the ligand binding site of a single transmembrane receptor without an active transmembrane region; fused at its C-terminus with the N-terminus of an immunoglobulin constant region. The receptor is not a member of the immunoglobulin super family nor a multiple subunit polypeptide encoded by discrete genes. The hybrid immunoglobulin chain combines the adhesion/targetting of a ligand binding partner (LBP) with the effector functions of immunoglobulin and can bind to and/or activate more than one ligand. It can be used diagnostically for the in cylinder of LBP such as toxins, enzymes, growth factors to particular cells. Typical applications are as antiviral, neuromodulating and immunomodulating agents, or as modulators of cell adhesion (e.g. in treating graft rejection; inflammation; metastasis of lymphoma etc.) The immunoglobulin component increases plasma half life and facilitates purification while deletion of the transmembrane region facilitates recovery, improves aqueous solubility and removes
                                                           Query Match
Best Local S
Matches 372
                                                                                                                                                                                                                                                                                                                                                                                                                                                              22-NOV-1989;
23-FEB-1989;
16-DEC-1991;
08-DEC-1992;
21-JAN-1994;
                                                                                                                                                                                                                                                                                                                                               Nucleic acid encoding hybrid immunoglobulin comprising binding site of a receptor fused to Ig constant region diagnosis and treatment e.g. of inflammation
                                                                                                             Sequence
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                                                                       Local Similarity
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                  YTDLVAIQNKAEIEYLEKTLPFSRSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGDGEPN 120
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Conservative 0
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89US-0315015.

91US-0808122.

92US-0986931.

94US-0185670.
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197..258
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1..38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /label- Lectin domain.
160..193
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                                                           Score 2116; DB 17;
Pred. No. 5.4e-141;
); Mismatches 0;
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                                                                                                                                                                                                                                                                                                                                                                                                            lymphocyte homing receptor
                                                                                                                                                                                                                                                                                                                                                                                                                               (first entry)
 89US-0440625.
89US-0315015.
91US-0808122.
92US-0986931.
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271..273
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232..2
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216..2
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                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
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                                                                                                                                                                                                                          ..218
                                                                                                                                                                                                                                                                                                                                                                      lymphoma metastasis; control; lymphocyte;
                                                                                                                                                                                                                                                                           "potential N-linked glycosylation
                                                                                                                                                                                                                                                                                                "potential signal sequence"
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Best Local 9
          Human lymphocyte
                                02-FEB-1999
                                                     AAW73264;
                                                                       AAW73264 standard; Protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The sequence is that of a human lymphocyte homing receptor (LHR) which may be used in the construction of a chimeric molecule comprising an LHR fused at its C terminus to the N terminus of an immunoglobulin constant region. This can be used for the prevention of lymphocyte attachment to endothelial cells. Such a method may be used for preventing organ or graft rejection, for treating inflammatory disorders, e.g. rheumatoid arthritis or other autoimmune diseases, for controlling lymphoma metastasis and for treating conditions in which there is an accumulation of treating conditions in which there is an accumulation of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
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26-MAY-1995;
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                                                                                                                                                                                                              cgpfgnwsspeptcqviqceplsapdlgimncshplasfsftsactficsegteligkkk 300
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                              (first entry)
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95US-0451848.
         homing receptor
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Pred. No. 5.4e-141;
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                                                                                                                                                                                                                                                                                                                                                                             invention. LHR is a lymphocyte cell-surface glycoprotein that mediates the binding of lymphocytes to the endothelium of lymphoid tissue. Soluble LHR polypeptides, lacking signal peptide (amino acids 1-38), acids 36-372), can be used therapeutically to compete with the normal binding of lymphocytes to lymphoid tissue and are especially useful for organ or graft rejection treatment protocols, for treating inflammations such as arthritis and other autoimmune diseases, for control of lymphoma metastasis and for treating conditions involving lymphocyte accumulation. LHR polypeptides can also be used in assays for LHR, anti-LHR antibodies or competitive inhibitors of LHR activity, and for purifying anti-LHR antibodies.
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31-OCT-1991;
06-MAY-1993;
10-AUG-1995;
                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 1;
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N-PSDB; AAV08321.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (GETH
                                                                                                                                   121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Lymphocyte homing receptor polypeptides - lymphocyte binding to lymphoid endothelium
                                                                                                                                           121 NKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTASCOPWSCSGHGECVEIINNHTC
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                                                                                                                                                                                                              61
                                                                                                                                                                                                                                 TICESSGIWSNPSPICQKLDKSFSMIKEGDYNPLFIPVAVMVTAFSGLAFIIWLARRLKK 360
                        cgpfgnwsspeptcqviqceplsapdlgimncshplasfsftsactficsegteligkkk
                                      CGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSETSACTFICSEGTELIGKKK 300
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ) GENENTECH INC.
) UNIV CALIFORNIA.
                                                                                                                                                                                                                                                                                                       Similarity
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91US-0786149.
93US-0059029.
95US-0513278.
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Pred. No. 5.4e-141;
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16-DEC-1991;
08-DEC-1992;
21-JAN-1994;
A hybrid immunoglobulin chain comprising the ligand binding site a single transmembrane receptor without an active transmembrane region; fused at its C-terminus with the N-terminus of an immunoglobulin constant region. The receptor is not a member of immunoglobulin super family, nor a multiple subunit polypeptide encoded by discrete genes. The hybrid immunoglobulin chain content the adhesion/targetting of a ligand binding partner (LBP) with the effector functions of immunoglobulin and can bind to and/or active effector functions of immunoglobulin and can bind to and/or active results.
                                                                                                                                                                                                                                                                                                           Nucleic acid encoding hybrid immunoglobulin comprising binding site of a receptor fused to Ig constant region diagnosis and treatment e.g. of inflammation
                                                                                                                                                                                                                                                      Disclosure; Page 19; 41pp; English.
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diagnosis; therapy; drug delivery; antiviral; neur
immunomodulator; cell adhesion; graft rejection; i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human lymphocyte cell surface
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|||||||||||
|gkkskrsmndpy 372
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89US-0315015.

91US-0808122.

92US-0986931.

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258..316
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159..192
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /label= Transmembrane domain 355..371
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Complement binding repeat
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                                                                                                                                                                                                                                                                                                        Immunoglobulin; transmembrane receptor; adhesion; targetting; diagnosis; therapy; drug delivery; antiviral; neuromodulator; immunomodulator; cell adhesion; graft rejection; inflammation;
                                                                                       Domain
                                                                                                                                                                                                                                                                                                                                                                                                                            Human lymphocyte cell surface glycoprotein (HuLHR) variant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   01-NOV-1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAR98115 standard; Protein;
                                  Domain
                                                                                                                                           Region
                                                                                                                                                                                                                               Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKKT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   tdlvaiqnkaeieylektlpfsrsyywigirkiggiwtwvgtnkslteeaenwgdgepnn
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       kkskrsmndpy 371
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   icessgiwsnpspicqkldksfsmikegdynplfipvavmvtafsglafiiwlarrlkkg
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                370;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      371 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                       /label= Signal 38..154
                                  /label= Lectin domain
159..192
                                                                                                                                              Location/Qualifiers
1..37
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99.7%;
        EGF domain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  371 AA
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Pred. No. 1.4e-140;
                                                                                                              region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                 A hybrid immunoglobulin chain comprising the ligand binding site of a single transmembrane receptor without an active transmembrane region; fused at its C-terminus with the N-terminus of an immunoglobulin constant region. The receptor is not a member of the immunoglobulin super family, nor a multiple subunit polypeptide encoded by discrete genes. The hybrid immunoglobulin chain combines the adhesion/targetting of a ligand binding partner (LBP) with the effector functions of immunoglobulin and can bind to and/or activate more than one ligand. It can be used diagnostically for the in vitro assay of LBP and their targets; or therapeutically to deliver LBP such as toxins, enzymes, growth factors to particular cells.
                                                                                                                                                                                                                                                                                                                                          Typical applications are as antiviral, neuromodulating and immunomodulating agents, or as modulators of cell adhesion (e.g. in treating graft rejection; inflammation; metastasis of lymphoma etc. The immunoglobulin component increases plasma half life and facilitates purification while deletion of the transmembrane region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         16-DEC-1991;
08-DEC-1992;
21-JAN-1994;
                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                 facilitates recovery, improves aqueous solubility and removes potentially immunogenic epitopes. Variants of the human lymphocell surface glycoprotein described in AAR98106 are given in AAR98109-R98135. This variant contains an Ile174Leu substitu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Nucleic acid encoding hybrid immunoglobulin comprising binding site of a receptor fused to Ig constant region diagnosis and treatment e.g. of inflammation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; Page 19; 41pp; English.
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    121
                                 122
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                                                              61
                                                                                           62
                                                                                                                                                     N
KKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNHTCN
                                                                         TDLVAIQNKAEIEYLEKTLPFSRSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGDGEPNN 121
                                                                                                                                  IFPWKCQSTQRDLWNIFKLWGWTMLCCDFLAHHGTYCWTYHYSEKPMNWQRARRFCRDNY 61
                                                          tdlvaiqnkaeieylektlpfsrsyywigirkiggiwtwvgtnkslteeaenwgdgepnn
                                                                                                                  ifpwkcqstqrdlwnifklwgwtmlccdflahhgtycwtyhysekpmnwqrarrfcrdny
                                                                                                                                                                                   370;
                                                                                                                                                                                                Similarity
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                                                                                                                                                                                 Conservative
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/label= (
258..316
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99.78;
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                                                                                                                                                                             Score 2109; DB 17;
Pred. No. 1.7e-140;
1; Mismatches 0;
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                                                                                                                  22-NOV-1989;
23-FEB-1989;
16-DEC-1991;
08-DEC-1992;
               Nucleic acid encoding hybrid immunoglobulin comprising the ligand binding site of a receptor fused to {\rm Ig} constant region - useful fidingnosis and treatment e.g. of inflammation
                                                                                                                                                                                                                                                                                                                                          Region
                                                     WPI; 1996-238773/24.
                                                                                                                                                                23-FEB-1989;
                                                                                                                                                                                                                                Domain
                                                                                                                                                                                                                                                                 Binding-site
                                                                                                                                                                                                                                                                                                                                                                                            Immunoglobulin; transmembrane receptor; adhesion; targetting; diagnosis; therapy; drug delivery; antiviral; neuromodulator; immunomodulator; cell adhesion; graft rejection; inflammation
                                                                                       (GETH ) GENENTECH INC
                                                                                                                                                                                                                                                                                    Binding-site
                                                                                                                                                                                                                                                                                                       Domain
                                                                                                                                                                                                                                                                                                                         Domain
                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                  Human lymphocyte cell surface glycoprotein
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                                                                       Lasky LA;
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                                                                                                                  89US-0315015.
91US-0808122.
92US-0986931.
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Disclosure; Page 19; 41pp;

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RESULT 1
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A hybrid immunoglobulin chain comprising the ligand binding site of a single transmembrane receptor without an active transmembrane region; fused at its C-terminus with the N-terminus of an immunoglobulin constant region. The receptor is not a member of the immunoglobulin super family nor a multiple subunit polypeptide encoded by discrete genes. The hybrid immunoglobulin chain combines the adhesion/targetting of a ligand binding partner (LBP) with the effector functions of immunoglobulin and can bind to and/or activate more than one ligand. By the transmission is a second diagnostically for the in
                                                                             Sequence of (HuLHR).
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                                                                                              human lymphocyte cell surface glycoprotein
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                                                surface glycoprotein; ligand binding protein
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                                                                                                                                                                                            Protein; 372
                                                                                                                             entry)
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99.7%;
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Pred. No. 1.7e-140;
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Query Match Best Local S Matches 371

Local Similarity

99.78;

Score 2109; DB 13; Pred. No. 1.7e-140; Mismatches

Length 372; Indels

0;

Gaps

0;

371;

Conservative

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LHR mediates the binding of lymphocytes to the endothelium of lymphoid tissue. Full length cDNA clones and DNA encoding the human and the murine LHR (HuLHR and MLHR, respectively) have been identified and isolated (see AAO24987 and AAO24988). LHR is a glycoprotein which contains the following protein domains: a signal sequence, a carbohydrate binding domain, and epidermal growth factor-like (egf) domain, at least one and preferably two complement binding domain repeat, a transmembrane binding domain (TMD), and a charged intracellular or cytoplasmic domain. LHR is used as the ligand-binding partner in fusion polypeptides with an immunoglobulin,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Key
Peptide
                                                                                                                                                                                             Nucleic acid encoding polypeptide fusions - comprising ligand binding partner protein and immunoglobulin chain, for use in diagnosis and therapy
                                                                                                                                                                      Disclosure; Fig 1-1 - 1-3; 43pp; English.
                                                                                                                                                                                                                                                N-PSDB;
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22-NOV-1989;
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                        diagnosis and therapy
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89US-0440625
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16-DEC-1991;
08-DEC-1992;
21-JAN-1994;
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                                                                               (GETH ) GENERTECH INC
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immunomodulator;
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                                                                                                                                                                                                                                                                                                                                                                                metastasis.
                                                                                                                                                                                                                                                                                                                                                                                                                         Human lymphocyte cell surface glycoprotein (HuLHR) variant.
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     acid encoding hybrid immunoglobulin comprising site of a receptor fused to Ig constant region is and treatment e.g. of inflammation
                                                             Lasky LA;
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                                                                                                                                                                                                                                                                           /label= EGF domain.
196..257
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1..37
                                                                                                                                                                                                                              label= Transmembrane domain
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RESULT 1
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Matches 370; Conservative
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Best Local :
         Immunoglobulin; transmembrane receptor; adhesion; targetting; diagnosis; therapy; drug delivery; antiviral; neuromodulator; immunomodulator; cell adhesion; graft rejection; inflammation
                                                                       Human lymphocyte
                                                                                                     01-NOV-1996
                                                                                                                                                             AAR98113 standard; Protein; 371
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                                                                                                                                                                                                                                                                  KKSKRSMNDPY 372
                                                                                                                                                                                                                                                                                                                                                                                                                             CDVGXYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEETTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cdvgyygpqcqlviqcepleapelgtmdcthpfgnfsfssqcafscsegtnltgieettc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       371 AA;
                                                                                                   (first entry)
                                                                       cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   99.6%;
                                                                     surface
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 2108; DB 17;
Pred. No. 2e-140;
1; Mismatches 0;
                                                                     glycoprotein
                                                                                                                                                              A
                                                                     (HuLHR) variant.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                371;
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                                                                                                                                            effector functions of immunogalobulin and can bind to and/or activate vitro assay of LBP and their targets; or therapeutically for the in vitro assay of LBP and their targets; or therapeutically to deliver the status are as antiviral, neuromodulating and immunogalitations are as antiviral, neuromodulating and immunogalitating agents, or as modulators of cell adhesion (e.g. in treating graft rejection; inflammation; metastasis of lymphoma etc.) The immunogabulin component increases plasma half life and facilitates purification while deletion of the transmembrane region facilitates recovery, improves aqueous solubility and removes potentially immunoganic epitopes. Variants of the human lymphocyte cell surface glycoprotein described in AAR98106 are given in AAR98109-R98135. This variant contains a Leu150Val substitution.
                                                          Query Match
Best Local
                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            23-FEB-1989;
16-DEC-1991;
08-DEC-1992;
                                                                                                                                                                                                                                                                                                                                        immunoglobulin super family, nor a multiple subunit polypeptide encoded by discrete genes. The hybrid immunoglobulin chain combines the adhesion/targetting of a ligand binding partner (LBP) with the
                                                                                                                                                                                                                                                                                                                                                                                                                     A hybrid immunoglobulin chain comprising the ligand binding site a single transmembrane receptor without an active transmembrane
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Nucleic acid encoding hybrid immunoglobulin comprising the ligand binding site of a receptor fused to Ig constant region - useful for diagnosis and treatment e.g. of inflammation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Binding-site
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Binding-site
                                                                                                                                                                                                                                                                                                                                                                                      a single transmembrane receptor without an active transmembrane region; fused at its C-terminus with the N-terminus of an immunoglobulin constant region. The receptor is not a member of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; Page 19; 41pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 1996-238773/24.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Domain
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                                                                                                                     Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       23-FEB-1989;
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                                            Local Similarity
nes 370; Conser
IFPWKCQSTQRDLWNIFKLWGWTWLCCDFLAHHGTYCWTYHYSEKPMNWQRARRFCRDNY 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   sapiens
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                                                                                                                     371 AA;
                                              Conservative
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89US-0315015.
91US-0808122.
92US-0986931.
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258..316
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /label= Complement binding repeat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /Label=
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                                                          99.68;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 English.
                                                          Score 2108; DB 1
Pred. No. 2e-140;
                                              Mismatches
                                                                        DB 17;
                                            0;
                                                                         Length
                                              Indels
                                                                        371;
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RESULT 1
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                 22-NOV-1989;
23-FEB-1989;
16-DEC-1991;
08-DEC-1992;
21-JAN-1994;
                                                                                                                                               Domain
                                                                                                                                                                                                                                                                                                                  metastasis.
                                                                                                                                                                                                                                                                                                                         Immunoglobulin; transmembrane receptor; adhesion; targetting;
diagnosis; therapy; drug delivery; antiviral; neuromodulator;
immunomodulator; cell adhesion; graft rejection; inflammation
                                                                                                                   US5514582-A
                                                                                                                                                                   Domain
                                                                                                                                                                                     Binding-site
                                                                                                                                                                                                        Binding-site
                                                                                                                                                                                                                             Domain
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                                                                                                                                                                                                                                                                                               Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                Human lymphocyte cell surface glycoprotein (HuLHR) variant.
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(GETH ) GENENTECH INC
                                                                             23-FEB-1989;
                                                                                                                                                                                                                                                                 Region
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                          kkskrsmndpy 371
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ifpwkcqstqrdlwnifklwgwtmlccdflahhgtycwtyhysekpmnwqrarrfcrdny
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              KKSKRSMNDPY 372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         tdlvaiqnkaeieylektlpfsrsyywigirkiggiwtwvgtnkslteeaenwgdgepnn
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                  89US-0315015.
91US-0808122.
92US-0986931.
94US-0185670.
                                                          89US-0440625
                                                                             89US-0315015
                                                                                                                                               /label=
355..371
                                                                                                                                                                   332..354
                                                                                                                                                                                                                            /label= Lectin
159..192
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                                                                                                                                                                                                                                                                   Location/Qualifiers
                                                                                                                                                                                      258..316
                                                                                                                                                                                                         196..257
                                                                                                                                                                                                                                                     /label= Signal region
                                                                                                                                                                           /label - Complement binding repeat
                                                                                                                                                                                                                 /label= EGF domain.
                                                                                                                                     /label= Cytoplasmic domain
                                                                                                                                                                                              /label= Complement binding repeat 1.
                                                                                                                                                                                                                                                                                                                                                                                                                           Protein;
                                                                                                                                                                                                                                                                                                                                                                                    entry)
                                                                                                                                                         Transmembrane domain
                                                                                                                                                                                                                                                                                                                                                                                                                           371
                                                                                                                                                                                                                                      domain
                                                                                                                                                                                                                                                                                                                           inflammation;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CC A hybrid immunoglobulin chain comprising the ligand binding site of CC a single transmembrane receptor without an active transmembrane CC region; fused at its C-terminus with the N-terminus of an CC immunoglobulin constant region. The receptor is not a member of the CC immunoglobulin super family, nor a multiple submit polypeptide CC encoded by discrete genes. The hybrid immunoglobulin chain combines CC the adhesion/targetting of a ligand binding partner (LBP) with the CC effector functions of immunoglobulin and can bind to and/or activate CC witro assay of LBP and their targets; or therapeutically for the in CC vitro assay of LBP and their targets; or therapeutically to deliver CC LBP such as toxins, enzymes, growth factors to particular cells. CC Typical applications are as antiviral, neuromodulating and CC immunomodulating agents, or as modulators of cell adhesion (e.g. in CC treating graft rejection; inflammation; metastasis of lymphoma etc.) CC The immunoglobulin component increases plasma half life and CC facilitates purification while deletion of the transmembrane region CC facilitates recovery, improves aqueous solubility and removes CC cell surface glycoprotein described in AAR98106 are given in AAR98109-R98135. This variants contains a Ser2267hr substitution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local Similarity
                           AAR22802 standard; Protein; 372
                                                                                                     361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Nucleic acid encoding hybrid immunoglobulin comprising the ligand binding site of a receptor fused to Ig constant region - useful for
                                                                                                                                 362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; Page 19; 41pp; English.
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                                                                                                                                                                                                                                                                                      CDVGYYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEFTTC 241
                                                                                                                                                                                                                                                                                                                                                                                   ICESSGIWSNPSPICQKLDKSFSMIKEGDYNPLFIPVAVMVTAFSGLAFIIWLARRLKKG 361
                                                                                                                                                                                                                                                                      cdvgyygpqcqlviqcepleapelgtmdcthpfgnfsfssqcaftcsegtnltgieettc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                371
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Lasky LA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ΑĄ,
                                                                                                     371
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       99.6%;
99.7%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 2108; DB 17;
Pred. No. 2e-140;
1; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            inflammation
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AAR22802;

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The protein contains regions encoding a carbohydrate binding domain.

C an EGF-like domain, a complement binding domain and a transmembrane domain. The protein contains 26 cystein residues. Cells transformed by the hLHR DNA are used to produce LHR (which mediates binding of lymphocytes to the endothelium of lymphoid tissue). LHR or its variants are useful as reagents for assaying LHR or anti-LHR anti-Complete with normal binding of lymphocytes (to prevent graft/organ rejection; to treat inflammation (such as rheumatoid arthritis or other autoimmune diseases); for control of lymphocyte metastasis, and to treat conditions associated with accumulation of lymphocytes). Derivs. and variants of LHR may be produced having modified properties, e.g. increased activity, longer plasma half-life, reduced side effects and better aq. solubility.
                                                                                                                                                                                                                      The protein sequence was deduced from the DNA sequence obtd. by screening an oligo dr primed lambda gt10 cDNA library derived fr human peripheral blood lymphocyte mRNA obtd. from primary cells, with a 2.2 kb ECORI insert of the murine Mel 14 antigen cDNA clo
                                                                                                                                                                                                                                                                                         Disclosure;
                                                                                                                                                                                                                                                                                                                             New DNA encoding at least one domain receptor - useful for treating graft
                                                                                                                                                                                                                                                                                                                                                                    N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                  WPI; 1992-123385/15
                                                                                                                                                                                                                                                                                                                                                                                                            Lasky LA,
                                                                                                                                                                                                                                                                                                                                                                                                                                   (REGC ) UNIV OF CALIFORNIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                               23-FEB-1989;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          rejection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         01-SEP-1992 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             lymphocyte homing receptor.
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                                                                                                                                                                                                                                                                                                                                                                      AAQ23623
                                                                                                                                                                                                                                                                                                                                                                                                            Rosen
                                                                                                                                                                                                                                                                                       Fig 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        inflammation; rheumatoid
                                                                                                                                                                                                                                                                                                                                                                                                                                                              89US-0315015
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232..234
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177..179
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60..62
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335..3
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271..2
                                                                                                                                                                                                                                                                                                                                                                                                           SD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Location/Qualifiers 20..32
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Search completed: October 13, 2001, 02:53:58 Job time: 4315 sec
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Best Local Similarity 99.5
Matches 370; Conservative
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                                                                                TICESSGIWSNPSPICQKLDKSFSMIKEGDYNPLFIPVAVMVTAFSGLAFIIWLARRLKK 360
                              gkkskrsmndpy 372
                                     GKKSKRSMNDPY 372
                                                                                                                                                                                                               99.6%; Score 2108; DB 13;
99.5%; Pred. No. 2e-140;
tive 1; Mismatches 1;
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Result
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1: /cgn1_7/ptodata/1/1aa/5A_COMB.pep:*
2: /cgn1_7/ptodata/1/1aa/5B_COMB.pep:*
3: /cgn1_7/ptodata/1/1aa/6A_COMB.pep:*
4: /cgn1_7/ptodata/1/1aa/6B_COMB.pep:*
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US-09-276-197-9
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US-08-340-539A-13
5514582-31
US-08-340-539A-18
US-08-340-539A-18
US-08-340-539A-19
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306.262 Million cell updates/sec
                                                        Sequence 13, Appl
Patent No. 5514582
Patent No. 5514582
Sequence 18, Appl
Sequence 17, Appl
Sequence 16, Appl
Sequence 19, Appl
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Sequence 2, Appli
Sequence 4, Appli
Patent No. 5514582
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Sequence 19, Appl
Sequence 19, Appl
Patent No. 5217870
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Sequence 13, Appl
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ALIGNMENTS	5256642-10	5472939-5	5256642-5	5472939-6	5256642-6	US-08-824-692-24	US-08-340-539A-20	US-08-824-692-23	US-08-877-620-2	US-08-596-405-2	US-08-296-014A-2	US-08-877-620-4	US-08-596-405-4	US-08-296-014A-4	US-08-340-539A-22	US-08-840-062-8	5378464-3	US-08-340-539A-15
	Patent No. 5256642	Patent No. 5472939	Patent No. 5256642	•		Sequence 24, App	Sequence 20, App	Sequence 23, App	Sequence 2, Appli	Sequence 2, Appli	Sequence 2, Appl.	Sequence 4, Appl	Sequence 4, Appl	Sequence 4, Appl	Sequence 22, App	Sequence 8, Appl	Patent No. 5378464	Sequence 15, Appl
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; Sequence 2, Application US/08513278 ; Patent No. 5840844 ; GENERAL INFORMATION:
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US-08-513-278-2
US-08-513-278-2
                                                                                                                                                         COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: patin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/513,278
FILING DATE: 10-AUG-1995
CLASSIFICATION: 5530
PRIOR APPLICATION NUMBER: 08/059027
APPLICATION NUMBER: 07/786149
FILING DATE: 06-MAY-1993
APPLICATION NUMBER: 07/786149
FILING DATE: 31-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/315015
FILING DATE: 23-FEB-1989
ATTORNEY/AGENT INFORMATION:
NAME: Dreger, Ginger R.
REGISTRATION NUMBER: 565D1C1
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225-3216
                                                                                                TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM: MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT: LASKY, LAURENCE A.
APPLICANT: STACHELL, SCOTT E.
APPLICANT: ROSEN, STEVEN D.
APPLICANT: SINGER, MARK S.
APPLICANT: YEDNOCK, TED A.
TITLE OF INVENTION: LYMPHOCYTE HOMING RECEPTORS
NUMBER OF SEQUENCES: 6
                                                                          SEQUENCE CHARACTERISTICS:
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CITY: South San Francisco
STATE: California
COUNTRY: USA
ZIP: 94080
                                                                                                         TELEFAX: 415/371-7168
TELEX: 910/371-7168
                                                                                                                          TELEPHONE: 415/22-9881
                                         TYPE:
                   TOPOLOGY:
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                                     H: 372 amino acids amino acid
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5514582-2
; Patent No. 5514582
; APPLICANT: CAPON, DANIEL J.; LASKY, LAURENCE A.
; TITLE OF INVENTION: RECOMBINANT DNA ENCODING HYBRID
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Best Local
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FILING DATE: 21-JAN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 986,931
FILING DATE: 08-DEC-1992
APPLICATION NUMBER: 808,122
FILING DATE: 16-DEC-1991
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Best Local Similarity 100.0%;
Matches 372; Conservative (
                                                                                                                                                                                                                                                                                                                                                                      NUMBER OF SEQUENCES: 43
CURRENT APPLICATION DATA:
                   121
                                                                   61
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                                                                                  181
                                                                                                                                                                                                                                                  APPLICATION NUMBER: 315,015
                                                                                                                                                                                                                                                             APPLICATION NUMBER: 440,625
FILING DATE: 22-NOV-1989
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  61
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                                  NKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNHTC 180
                                                                                                                                         372;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKK 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NCDVGYYGPQCQLVIQCEPLEAPĖLGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEETT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          YTDLVAIQNKAEIEYLEKTLPFSRSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGDGEPN 120
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                                                                                                                                                  Similarity
                                                                                                                                        Conservative
                                                                                                                                    100.0%; Score 2116; DB 6; 100.0%; Pred. No. 2.9e-185; tive 0; Mismatches 0;
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Pred. No. 2.9e-185;
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                                                                                                                                                    ; TOPOLOGY: 1:
; MOLECULE TYPE:
US-08-340-539A-2
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                                                                      Matches 365;
                                                                                                    Query Match
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                                                                                                                                                                                                                                 TELEFAX: 212-596-9090
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
                                                                                                                                                                                                                                                                               REGISTRATION NUMBER: 38,479
REFERENCE/DOCKET NUMBER: CG
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-596-9000
                                                                                                                                                                                                                                                                                                                                                                                            CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/340,539#
FILING DATE: 16-NOV-1994
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/008,459
                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US 08
FILING DATE: 25-JAN-1993
ATTORNEY/AGENT INFORMATION:
NAME: Gunnison, Jane
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE OF INVENTION:
TITLE OF INVENTION:
NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Tedder, Thomas F.
APPLICANT: Kansas, Geoffrey S.
TITLE OF INVENTION: CHIMERIC SELECTINS AS SIMULTANEOUS
TITLE OF INVENTION: BLOCKING AGENTS FOR COMPONENT SELECTIONS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CORRESPONDENCE ADDRESS
      14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STREET: 1251 Avenue of the Americas CITY: New York
STATE: New York
                                                                                    Local Similarity
                                                                                                                                                                                                 LENGTH: 385 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
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MIFPWKCQSTQRDLWNIFKLWGWTMLCCDFLAHHGTDCWTYHYSEKPMNWQRARRFCRDN
                   MIFPWKCQSTQRDLWNIFKLWGWTMLCCDFLAHHGTYCWTYHYSEKPMNWQRARRFCRDN
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                                                                   Conservative
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98.1%;
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 Mismatches

                                                                               Score 2076; DB 1;
Pred. No. 1.3e-181;
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                                                                                                Length 385;
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                                                              Gaps
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Length 385;

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US-08-461-592B-2
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                                                                      PRIOR APPLICATION UMBER: US 08/340,539
FILING DATE: 16-NOV-1994
PRIOR APPLICATION UMBER: US 08/008,459
PRIOR APPLICATION DATA:
APPLICATION UMBER: US 08/008,459
FILING DATE: 25-JAN-1993
ATTORNEY/AGENT INFORMATION:
NAME: James F. Haley, Jr.
REGISTRATION NUMBER: CG-104
REFERENCE/DOCKET NUMBER: CG-104
TELECOMMUNICATION INFORMATION:
TELEPAN: (212) 596-9090
TELEFAX: (212) 596-9090
TELEFAX: (212) 596-9090
TELES: 14-8367
INFORMATION FOR SEQ ID NO: 2:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   quence 2, Application US/08461592B
                                                                                                                                                                                                                                                                                                                                                                ZIP: 02109
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version
TOPOLOGY: 1: MOLECULE TYPE:
                                                           SEQUENCE CHARACTERISTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Tedder, Thomas F.
APPLICANT: Kansas, Geoffrey S.
TITLE OF INVENTION: CHIMERIC S
TITLE OF INVENTION: BLOCKING A
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                        CURRENT APPLICATION DATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                              STREET:
CITY: BC
STATE: N
COUNTRY:
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                                 TYPE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADDRESSEE: Weingarten, Schurgin, Gagnebin & Hayes
STREET: Ten Post Office Square
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        74
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                                           385 amino acids
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               linear
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BLOCKING AGENTS FOR COMPONENT SELECTIN FUNCTION
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RESULT 5
US-08-513-278-4
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Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                       APPLICATION NUMBER: US/08/513,278
FILING DATE: 10-AUG-1995
CLASSIFICATION: 5530
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/059027
FILING DATE: 06-MAY-1993
APPLICATION NUMBER: 07/786149
FILING DATE: 31-OCT-1991
PRIOR APPLICATION NUMBER: 07/315015
FILING DATE: 23-FEB-1989
ATTORNEY/AGENT INFORMATION:
NAME: Dreger, Ginger R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENERAL INFORMATION:
                                                                                                                                                                                                                   COMPUTER READABLE FORM:
MEDIUM TYPE: 5.25 inch, 360 Kb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: patin (Genentech)
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: LASKY, LAURENCE APPLICANT: STACHELL, SCOTT APPLICANT: ROSEN, STEVEN D. APPLICANT: SINGER, MARK S.
                                                                                                                                                                                                                                                                                                                                                                                                  TITLE OF INVENTION: LYMPHOCYTE HOMING RECEPTORS NUMBER OF SEQUENCES: 6
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      301 TICESSGIWSNPSPICQKLDKSFSMIKEGDYNPLFIPVAVMVTAFSGLAFIIWLARRLKK 360
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CITY: South San Francisco
STATE: California
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REFERENCE/DOCKET NUMBER:
               REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                       ADDRESSEE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CEPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKK
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Pred. No. 1.3e-181;
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RESULT 6
5514582-4
;Patent No. 5514582
; APPLICANT: CAPON, DANIEL J.;LASKY, LAURENCE A.
; TITLE OF INVENTION: RECOMBINANT DNA ENCODING HYBRID
                                                                                    5514582-4
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TOPOLOGY: linear
US-08-513-278-4
                   Query Match
Best Local Similarity
      Matches
                                                                                                                                                        APPLICATION NUMBER: US/08/18
FILING DATE: 21-JAN-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 986,931
FILING DATE: 08-DEC-1992
APPLICATION NUMBER: 808,122
FILING DATE: 16-DEC-1991
APPLICATION NUMBER: 440,625
FILING DATE: 22-NOV-1989
FILING DATE: 22-NOV-1989
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches 283;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TELECOMMUNICATION INFORMATION: 415/225-3216
TELEPHONE: 415/225-3216
TELEPAX: 415/952-9881
TELEX: 910/371-71.68
INFORMATION FOR SEQ ID NO: 4:
                                                                                                                                                                                                                                                                                                      CURRENT APPLICATION DATA:
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LENGTH: 372 amino acids
TYPE: amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                               361 GKKSQERMDDPY 372
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             181 ICDAGYYGPOCQYVVQCEPLEAPELGTMDCIHPLGNFSFQSKCAFNCSEGRELLGTAETQ 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121
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                                                                                                                             APPLICATION NUMBER: 315,015 FILING DATE: 23-FEB-1989
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            121 NKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTASCOPWSCSGHGECVEIINNHTC
                                                                                                ENGTH: 372
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity
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        283;
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    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
78.0%; Score 1651; DB 6; 76.1%; Pred. No. 7.6e-143; Mismatches 57;
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76.1%;
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Pred. No. 7.6e-143;
""" omatches 57;
                               Length 372;
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; MOLECULE TYPE: US-08-110-158-4
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US-08-110-158-4
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                                                                                                                                                APPLICATION NUMBER: US/08/110
FILING DATE: 19930820
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/320
ATTORNET/AGENT INFORMATION:
NAME: PADST, PATTER L.
REGISTRATION NUMBER: 31,284
TELECOMMUNICATION INFORMATION:
                                                                                                        TELEFAX: (404)-815-65: INFORMATION FOR SEQ ID NO:
                                                                         SEQUENCE CHARACTERISTICS:
LENGTH: 830 amino acid
                                                                                                                                                                                                                                                                                   SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/110,158
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MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
COMPUTER: COMPUTER: PC-DOS/MS-DOS
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TITLE OF INVENTION: Expression
TITLE OF INVENTION: P-Selectin
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CITY: Atlanta
STATE: GA
                            STRANDEDNESS:
TOPOLOGY: li
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                                                                      830 amino acids
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                                                                                                                    (404)-815-6508
(404)-815-6555
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PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 07/554199
FILING DATE: 17-JUL-1990
ATTORNEY/AGENT INFORMATION:
NAME: PABST, PATICA L.
RECISTRATION NUMBER: 31,284
REFERENCE/DOCKET NUMBER: OMRF110CIP
TELECOMMUNICATION INFORMATION:
TELEPHONE: 404-572-6508
TELEFAX: 404-572-6508
TELEFAX: 404-572-6508
INFORMATION FOR SEO ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 830 amino acids
TYPE: AMINO ACID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 2, Application PC/TUS9105059
GENERAL INFORMATION:
APPLICANT: Regents of the Board of the, University of
APPLICANT: Oklahoma
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                                                                                                                                                                                                                                                                                                                                        COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARRE: PAtentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US91/05059
FILING DATE: 19910717
                                                                                                                                                                                                                                                              CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/320408
FILING DATE: 08-MAR-1989
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CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CITY: Atlanta
STATE: Georgia
COUNTRY: US
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ZIP: 30303
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100 Peachtree Street, Suite 3100
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ORIGINAL SOURCE:
ORGANISM: Hom TOPOLOGY: linear MOLECULE TYPE: peptide MOLECULE YES LOCATION: FEATURE: FEATURE:
NAME/KEY: FEATURE:
NAME/KEY: NAME/KEY: NAME/KEY: LOCATION: LOCATION: TISSUE TYPE: Homo sapien E: Blood Disulfide-bond 478..505 Disulfide-bond 60..158 Disulfide-bond 461..474 Disulfide-bond 448..492 Disulfide-bond 416..443 Disulfide-bond 399..412 Disulfide-bond 386..430 pisulfide-bond 354..381 Disulfide-bond 337..350 Disulfide-bond 324..368 Disulfide-bond 292..319 Disulfide-bond 275..288 Disulfide-bond 262..306 Disulfide-bond 230..257 Disulfide-bond 213..226 Disulfide-bond 200..244 Disulfide-bond 185..194 Disulfide-bond 168..183 Disulfide-bond 163..174 Disulfide-bond 131..150 Disulfide-bond 4..25 Endothelial N-terminal

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OTHER INFORMATION:
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FEATURE:
NAME/KEY: Binding-s:
LOCATION: 98
OTHER INFORMATION:
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OTHER INFORMATION: /not OTHER INFORMATION: 91yo
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OTHER INFORMATION: /not OTHER INFORMATION: 91yc
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510..554
                                   /note= "Potential asparagine-linked
glycosylation site"
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glycosylation site"
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glycosylation site"
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glycosylation site"
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RESULT 9
5378464-2
; Patent No. 5378464
; APPLICANT: MCEVER, RODGER P.
; TITLE OF INVENTION: MODULATION OF INFLAMMATORY RESPONSES
; BY ADMINISTRATION OF GMP-140 OR ANTIBODY TO GMP-140
; NUMBER OF SEQUENCES: 32
; NUMBER OF SEQUENCES: 32
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5378464-2
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FILING DATE: 08-MAR-1989
SEQ ID NO:2:
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OTHER INFORMATION:
FEATURE:
NAME/KEY: Binding:
      131
                                  128 CVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNHTCNCDVGYY 187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             311 VWTAPAPVCK 320
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          128 CVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNHTCNCDVGYY 187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FEATURE:
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                                                                                                                                                                                                                                                                11 QREQRVVFGISQLLCFSALISELTNQKEVAAWTYHYSTKAYSWNISRKYCQNRYTDLVAI 70
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             89
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CVETYIKSPSAPGKWNDEMCLKKKMALCYTASCQDMSCSKQGECLETIGNYTCSCYPGFY
                                                                                                                                                                      QNKAEIEYLEKTLPFSRSYYWIGIRKIGGIWTWYGTNKSLTEEAENWGDGEDNNKKNKED 127
                                                                                                                                                                                                                                                                                                          QSTQRDLWNIFKLWGWTMLCCDFLAHHGTYCWTYHYSEKPMNWQRARRFCRDNYTDLVAI
                                                                                                                                QNKNEIDYLNKVLPYYSSYYWIGIRKNNKTWTWVGTKKALTNEAENWADNEPNNKRNNED
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Binding-site 716
                                                                                                                                                                                                                                                                                                                                                                                                                                   42.0%; Score 889; DB 6; 50.0%; Pred. No. 7.1e-73;
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glycosylation site"
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glycosylation site"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      INFORMATION FOR SEQ ID NO: 3:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: US 07/850,802 FILING DATE: 13-MAR-1992 ATTORNEY/AGENT INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TELEPHONE: 202-371-2600
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MEDIUM TYPE: Floppy disk
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION DATA:
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CORRESPONDENCE ADDRESS:
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159 SCQPWSCSGHGECVEIINNHTCNCDVGYYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFS 218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             308 IWSNPSPICQ 317
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NAME: Markowicz, Karen R. REGISTRATION NUMBER: 36,351 REFERENCE/DOCKET NUMBER: 06
                                                                    82 VWVGTQKPLTEEAKNWAPGEPNNRQKDEDCVEIYIKREKDVGMWNDERCSKKKLALCYTA 141
                                                                                                                                         99
                                                                                                                                                                                                           22
                                                                                                                                                                                                                                           39 WTYHYSEKPMNWQRARRFCRDNYTDLVAIQNKAEIEYLEKTLPFSRSYYWIGIRKIGGIW 98
                                                                                                                                                                                                                                                                                                                                             Local Similarity 52.0 les 145; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TOPOLOGY:
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                                                                                                            TWVGTNKSLTEEAENWGDGEPNNKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTA 158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            VWTAPAPVCK 320
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1100 New York Ave.,
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52.0%; Pred. No. 1.4e-70;
tive 41; Mismatches 93;
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SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 19
LENGTH: 610
TYPE: PRT
ORGANISM: Homo sapiens
US-09-209-668-19
LENGTH: 610
5217870-2
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5217870-2
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US-09-209-668-19
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                                           SEQ ID NO:2:
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Best Local Similarity
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APPLICANT: XU, Xiaoxing S.
TITLE OF INVENTION: METHODS OF MODULATING TUMOR NECROSIS FACTOR
TITLE OF INVENTION: ALPHA-INDUCED EXPRESSION OF CELL ADHESION MOLECULES
FILE REFERENCE: ISPH-0336
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CURRENT APPLICATION NUMBER: US/09/209,668A CURRENT FILING DATE: 1998-12-10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQ ID NOS: 25
                                                                               CURRENT APPLICATION DATA:
APPLICATION NUMBER: US
                                                                                                                                    APPLICANT: HESSION, CATHERINE A.; LOBB, ROY R.; GOELZ, TITLE OF INVENTION: MONOCLONAL ANTIBODIES AGAINST CDX
                                                                                                                     NUMBER OF SEQUENCES:
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                                                           FILING DATE:
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                                                                 28-APR-1989
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52.0%;
                                                                                 US/07/345,151
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Pred. No. 1.4e-70;
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Query Match

40.78;

Score 862;

DB 6;

Length

Query Match Best Local Similarity

38.5%; 36.1%;

Score 814.5; DB 2; Pred. No. 2.2e-66;

Length 484;

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US-08-252-493C-9
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                                                                                                                                                   ATTORNEY/AGENT INFORMATION:
NAME: Fidel, Seth A.
REGISTRATION NUMBER: 38,449
REFERENCE/DOCKET NUMBER: ALX-138
TELECOMMUNICATION INFORMATION:
TELEPHONE: (203) 776-1790
TELEPAX: (203) 772-3655
INFORMATION FOR SEQ ID NO: 9:
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COMPUTER READABLE FORM:
MEDIOM TYPE: 3.5 inch, 750:
COMPUTER: PC compatible
COMPUTER: PC compatible
OPERATING SYSTEM: DOS 6.2
SOFTWARE: WordDerfect 6.0
CURRENT APPLICATION DATA:
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                                              STRANDEDNESS:
TOPOLOGY: Line
MOLECULE TYPE:
                                                                                                  SEQUENCE CHARACTERISTICS:
LENGTH: 484 amino acids
TYPE: amino acid
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CORRESPONDENCE ADDRESS:
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TITLE OF INVENTION: PORCINE E-SELECTIN
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                                                                                                                                                                                                                                                                                                    APPLICATION NUMBER: FILING DATE:
                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US/08/252,493C FILING DATE: June 1, 1994 CLASSIFICATION: 435
              DESCRIPTION:
DESCRIPTION:
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5891645
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Rother, Russell P.
Evans, Mark J.
Matis, Louis A.
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       cDNA to mRNA predicted amino acid sequence Porcine E-selectin
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INFORMATIC) 776-1790	REFERENCE/DOCKET NUMBER: 38,449	NAME: Fidel, Seth A.	FILING DATE: ATTORNEY/AGENT INFORMATION:	APPLICATION NUMBER: 08/252,493	(C)	APPLICATION NUMBER: US/09/276,197 FILING DATE:	ATA:	SYSTEM: DOS	C compatible	750 Kh stora	06511	STATE: Connecticut	New Haven	ADDRESSEE: Seth A. Fidel STREET: 25 Science Park, Box 15	PONDENCE ADDRESS	TITLE OF INVENTION: PORCINE E-SELECTIN NUMBER OF SEQUENCES: 9	CANT: Matis, Louis A.	APPLICANT: KOCHET, KUSSELL F. APPLICANT: Evans, Mark J.	Rollins, Scott	AL INFORMATION:	Patent No. 6040428	276-197-9	ESULT 14	441 FMTSASFILWILKRIRKRAK 460	345 - PSGLAFIIWLARRLKKGKK 363	383PVFGAVCTFACPEGWMLNGSVALTCGATGHWSGMLPTCEAPAESKIPLAMGLAAGGVS 44(331 YNPLF	TYKSSCAFSCE	278 SFSFTSACTFICSEGTELIGKKKTICESSGIWSNPSPICQKLDKSFSMIKEGD 33(263 YKSTCHFTCA	CSEGTNLTGIEETTCGPFGNWSSPEPTCQVIQCEP	203 TCAFECKEGFELIGPEHLQCTSSGSWDGKKPTCKAVTCDTVGHPQNGDVSCNHSSIGEFA 26	212FGNF	143 ACTPTSCSGHGECIETINSSTCQCYPGFRGLQCEQVVE	159 SCQPWSCSGHGECVEIINNHTCNCDVGYYGPQCQLVIQCEPLEAPELGTMDCT 21:	83	99	23 WSYSASTETMTFDDASAYCQQRYTHLVAIQNHAEIEYLNSTFNYSASYYWIGIRKINGTW 82	39	Matches 159; Conservative 55; Mismatches 109; indels 117; Gaps

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RESULT 15
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                                                                                                                                                                                                                                                                                                            Sequence 38, Application US/08274661B Patent No. 5593882
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 38.5%; Score 814.5; DB 3; Length 484; Best Local Similarity 36.1%; Pred. No. 2.2e-66;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches 159;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEFAX: (203) 772-3655 INFORMATION FOR SEQ ID NO: SEQUENCE CHARACTERISTICS:
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Winpatin (Genentech)
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                     APPLICANT: Erbe, David V.
APPLICANT: Lasky, Laurence A.
APPLICANT: Presta, Leonard G.
TITLE OF INVENTION: Selectin Variants
                                                                                                                                                                                                         NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MOLECULE TYPE: cDNA to mRNA
DESCRIPTION: predicted am
DESCRIPTION: Porcine E-se
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  263 YKSTCHFTCAEGFGLQGPAQIECTAQGQWTQQAPVCKAVKCPAVSQPKNGLVKFTHSPTG 322
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   203
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        159
                                                                                                                                      ADDRESSEE: Genentech, Inc.
STREET: 460 Point San Bruno Blvd
CITY: South San Francisco
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STRANDEDNESS: S1
                                                                                                                      COUNTRY:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      --PVFGAVCTFACPEGWMLNGSVALTCGATGHWSGMLPTCEAPAESKIPLAMGLAAGGVS 440
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FSSQCAFSCSEGTNLTGIEETTCGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSH-PLA 277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WSYSASTETMTEDDASAYCQQRYTHLVAIQNHAEIEYLNSTENYSASYYWIGIRKINGTW 82
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TCAFECKEGFELIGPEHLQCTSSGSWDGKKPTCKAVTCDTVGHPQNGDVSCNHSSIGEFA 262
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EFTYKSSCAFSCEEGFELRGSAQLACTSQGQWTQEVPSCQVVQCSSLEVPREINMSCSGE 382
                                                                                                        94080
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Search completed: October 13, Job time: 719 sec
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                                                                                                                                                                                                                                                                         Query Match 31.5%; Score 666; DB 1; Best Local Similarity 100.0%; Pred. No. 1.2e-53; Matches 117; Conservative 0; Mismatches 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TELEFAX: 415/952-9881
TELEX: 910/371-7168
INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE CHARACTERISTICS:
LENGTH: 117 amino acids
TYPE: Amino Acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILING DATE: 10/01/1992
ATTORNEY/AGENT INFORMATION:
NAME: Dreger, Ginger R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELECOMMUNICATION INFORMATION:
TELEPHONE: 415/225-3216
TELEFAX: 415/952-9881
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION DATA:
APPLICATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: US/08/274,661B FILING DATE: 13-Jul-1994 CLASSIFICATION: 424
                                                                                                                              99 TWVGTNKSLTEEAENWGDGEPNNKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALC
                                                                                                                                                                                                                  39 WTYHYSEKPMNWQRARRECRDNYTDLVAIQNKAEIEYLEKTLPFSRSYYWIGIRKIGGIW 98
                                                                                                       61 TWVGTNKSLTEEAENWGDGEPNNKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALC
                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY:
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REFERENCE/DOCKET NUMBER: 761P1C1
                                                                                                                                                                                         1 WTYHYSEKPMNWQRARRFCRDNYTDLVAIQNKAEIEYLEKTLPFSRSYYWIGIRKIGGIW 60
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                      2001, 02:55:41
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Database
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq length: 2000000000
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Perfect score:
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Gapop 10.0 , Gapext 0.5
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2116
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Copyright (c) 1993 - 2000 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /cgnl_7/ptodata/1/paa/PCTUS_COMB.pep:*
/cgnl_7/ptodata/1/paa/US06_COMB.pep:*
/cgnl_7/ptodata/1/paa/US07_COMB.pep:*
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/cgnl_7/ptodata/1/paa/US081_COMB.pep:*
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/cgn1_7/ptodata/1/paa/US60_COMB.pep:*
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502.786 Million cell updates/sec
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

15 TIS-00-110-200-4	23 US-60-207-315-428 23 US-60-230-435-1751	385 8 US-08-410-569-2 Seque	7 US-08-340-539-2	4 US-08-008-459-2	1 PCT-US94-00909-2	1 PCT-US92-03970-2	15 US-09-119-209-2	Query Match Length DB ID Descri
	7-315-428 Sequence 428, App 0-435-1751 Sequence 1751 App						9-209-2 Sequence 2, Appli	Description

ALIGNMENTS

RESULT

US-09-119-209-2 Sequence 2, Application US/09119209
GENERAL INFORMATION:
APPLICANT: LAURENCE A.
APPLICANT: STACHELL, SCOTT E. COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/119,209
FILING DATE: 20-Jul-1998 APPLICATION NUMBER: 08/513278
FILING DATE: 10-AGG-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/059027 APPLICANT: PRIOR APPLICATION DATA: APPLICANT: TITLE OF IN CORRESPONDENCE ADDRESS NUMBER OF SEQUENCES: APPLICANT: FILING DATE: 2: CLASSIFICATION: STREET: 1 DNA Way CITY: South San F STATE: California COUNTRY: U: ZIP: 94080 ADDRESSEE: T: ROSEN, STEVEN D.
T: SINGER, MARK S.
T: YEDNOCK, TED A.
INVENTION: LYMPHOCYTE HOMING RECEPTORS USA Genentech, Inc. 6-MAY-1993 Francisco

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                                                                                                                                                                                            Sequence 2, Application PC/TUS9203970
GENERAL INFORMATION:
GENERAL INFORMATION:
Dana-Farber Cancer Institute,
TITLE OF INVENTION: LEUKOCYTE-ASSOCIATED
TITLE OF INVENTION: PROTEIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
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INFORMATION FOR SEQ ID NO: 2:
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
                                                                                                                            CORRESPONDENCE ADDRESS:
ADDRESSEE: Weingarten, Schurgin,
STREET: Ten Post Office Square
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NAME: LOVE, Richard B.
REGISTRATION NUMBER: 34,659
REFERENCE/DOCKET NUMBER: PO:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/225-5530
                                                                                                                                                                                NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/31
FILING DATE: 23 FEB-1989
ATTORNEY/AGENT INFORMATION:
NAME: Love, Richard B.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE CHARACTERISTICS:
LENGTH: 372 amino acids
TYPE: Amino Acid
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                                                                     ZIP:
                                                                                 COUNTRY:
                                                                                                                CITY: Boston
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           61
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TICESSGIWSNPSPICQKLDKSFSMIKEGDYNPLFIPVAVMVTAFSGLAFIIWLARRLKK 360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKK
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NCDVGYYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEETT 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQDWSCSGHGECVEIINNHTC 180
                                                                                                                                                                                                                                                                                                                                                                                                            TICESSGIWSNPSPICQKLDKSFSMIKEGDYNPLFIPVAVMVTAFSGLAFIIWLARRLKK 360
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNHTC
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                                                                                                  Massachusetts
                                                                                 U.S.A.
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                                                                                                                                                                                                               LEUKOCYTE-ASSOCIATED CELL SURFACE
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                                                                                                                                                Hayes
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 2, Application PC/TUS9400909 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches 365;
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Heine, Holliday C.
REGISTRATION NUMBER: 34,346
REFERENCE/DOCKET NUMBER: DFCI
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-2290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              INFORMATION FOR SEQ ID NO:
                                                                                                                           COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version
CURRENT APPLICATION DATA:
                                                                   APPLICATION NUMBER: PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                      TITLE OF INVENTION:
                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQUENCES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE CHARACTERISTICS:
LENGTH: 385 amino acids
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CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US92/03970
FILING DATE: 19920513
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       374 GKKSKRSMNDPY 385
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        121
APPLICATION NUMBER: US.08/008,459 FILING DATE: 25-JAN-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                14 MIFPWKCQSTQRDLWNIFKLWGWTMLCCDFLAHHGTDCWTYHYSEKPMNWQRARRFCRDN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                         CHIMERIC SELECTINS AS SIMULTANEOUS BLOCKING AGENTS FOR COMPONENT SELECTIN FUNCTION
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98.1%;
                                                                                                        PCT/US94/00909
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Pred. No. 2.6e-173;
3; Mismatches 4;
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PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE: 30-NOVPRIOR APPLICATION DATA:

30-NOV-1992

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                                                                                                                                                                 RESULT
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Best Local Sim
Matches 365;
                                                                                                         Sequence 2, Application US/08008459 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: US 07/770,608
FILING DATE: 03-OCT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/737,092
FILING DATE: 29-JUL-1991
PRIOR APPLICATION NUMBER: US 07/730,503
APPLICATION NUMBER: US 07/730,503
APPLICATION NUMBER: US 07/730,773
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/700,773
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APPLICATION NUMBER: US 0
FILING DATE: 21-FEB-1989
INFORMATION FOR SEQ ID NO: 2
             APPLICANT: Tedder, Thomas F.
APPLICANT: Kansas, Geoffrey S.
TITLE OF INVENTION: CHIMERIC SELECTINS AS SIMULTANEOUS
TITLE OF INVENTION: BLOCKING AGENTS FOR COMPONENT SELECTIN FUNCTION
NUMBER OF SEQUENCES: 11
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FILING DATE: 02-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/770,608
CORRESPONDENCE ADDRESS:
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                                                                                                                                                                                                                                                                                                TICESSGIWSNPSPICQKLDKSFSMIKEGDYNPLFIPVAVMVTAFSGLAFIIWLARRLKK 360
                                                                                                                                                                                                                                                                                                                                                                      CGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKK 300
                                                                                                                                                                                                                                           GKKSKRSMNDPY 372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NCDVGYYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEETT 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNHTC 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        YTDLVAIQNKAEIEYLEKTLPFSRSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGDGEPN 120
                                                                                                                                                                                                                          GKKSKRSMNDPY 385
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MIFPWKCQSTQRDLWNIFKLWGWTMLCCDFLAHHGTDCWTYHYSEKPMNWQRARRFCRDN 73
                                                                                                                                                                                                                                                                                                                                                                                                                                                    NCDVGYYGPQCQFVIQCEPLEAPELGTMDCTHPLGNFNFNSQCAFSCSEGTNLTGIEETT
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Pred. No. 2.6e-173;
3; Mismatches 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 385;
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                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/737,092
EILING DATE: 29-JUL-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/730,503
FILING DATE: 08-JUL-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/700,773
FILING DATE: 15-MAY-1991
PRIOR APPLICATION NUMBER: US 07/701,773
FILING DATE: 15-MAY-1991
PRIOR APPLICATION NUMBER: US 07/313,109
APPLICATION NUMBER: US 07/313,109
                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX: (617) 451-031
TELEX: 940675
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FILING DATE: 30-NOV-1992
PRIOR APPLICATION DATA:
APPLICATION UNMBER: US 07/862,483
FILING DATE: 02-APR-1992
PRIOR APPLICATION DATA:
APPLICATION UNMBER: US 07/770,608
FILING DATE: 03-OCT-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NAME: Heine, Holliday C.
REGISTRATION NUMBER: 34,346
REGERENCE/DOCKET NUMBER: DFCI-318XX
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-2290
TELEFAX: (617) 451-0313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FILING DATE: 21-FEB-1989
ATTORNEY/AGENT INFORMATION:
NAME: Heine, Holliday C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 0:
FILING DATE: 30-NOV-1992
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/008,459
FILING DATE: US-JAN-1993
CLASSIFICATION: 514
CLASSIFICATION: 514
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
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194
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STREET: Te
CITY: Bost
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                NCDVGYYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEETT 240
NCDVGYYGPQCQFVIQCEPLEAPELGTMDCTHPLGNFNFNSQCAFSCSEGTNLTGIEETT
                                                                                                                                                                                                                                                                         365;
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                                                                                                                                                                                                                                                                                         98.1%;
98.1%;
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                                                                                                                                                                                                                                                                       Score 2076; DB 4;
Pred. No. 2.6e-173;
3; Mismatches 4;
                                                                                                                                                                                                                                                                                                        Length 385;
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                                                                                                                                                                                                                                                                       Gaps
253
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US-08-340-539-2
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              TELEX: 940675
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                      APPLICATION NUMBER: US 07,
FILING DATE: 15-MAX-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07,
FILING DATE: 21-FEB-1989
ATTORNEY/AGENT INFORMATION:
                                                                               REFERENCE/DOCKET NUMBER: DETELECOMMUNICATION INFORMATION: TELEPHONE: (617) 542-2290
                                                                                                                                                                                                                                                                                                                                                 PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/770,608
FILING DATE: 03-0CT-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/737,092
FILING DATE: 29-JUL-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICATION NUMBER: US 07/983,606
FILING DATE: 30-NOV11992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/862,483
FILING DATE: 02-APP-1992
                                                                                                                                                                                                                                                                             APPLICATION NUMBER: US 0: FILING DATE: 08-JUL-1991 PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/008,459
FILING DATE: 25-UAN-1993
PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                    PRIOR APPLICATION DATA:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Tedder, APPLICANT: Kansas,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQUENCES:
LENGTH:
                                                                    TELEFAX:
                                                                                                                                        NAME: Heine, Hollid REGISTRATION NUMBER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    361 GKKSKRSMNDPY 372
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OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
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Ten Post Office Square
                                                                  (617) 451-0313
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BLOCKING AGENTS FOR COMPONENT SELECTIN FUNCTION
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US-08-410-569-2
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GENERAL INFORMATION:
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Best Local Similarity
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               ATTORNEY/AGENT INFORMATION:
NAME: Heine, Holliday C.
REGISTRATION NUMBER: 34,
                                                                                                                                                                                          MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                 CORRESPONDENCE ADDRESS:
ADDRESSEE: Weingarten, Schurgin, Gagnebin & Hayes
STREET: Ten Post Office Square
                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Tedder, Thomas F.
APPLICANT: Spertini, Olivier G.
TITLE OF INVENTION: LEUKOCYTE ADHESION MOLECULE-1 (LAM-1)
TITLE OF INVENTION: AND LIGAND THEREOF
                                                                                                                                                                                                                                                                           ZIP: 02109
COMPUTER READABLE FORM:
                                                                                                                            PRIOR APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                       NUMBER OF SEQUENCES:
                                                            APPLICATION NUMBER: US 07/770,608
FILING DATE: 03-OCT-1991
APPLICATION NUMBER: US 07/700,773
FILING DATE: 15-MAY-1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 374 GKKSKRSMNDPY 385
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                                                                                                                                              CLASSIFICATION:
                                                                                                                                                             APPLICATION NUMBER: FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 361 GKKSKRSMNDPY 372
                                                                                                                                                                                                                                                        MEDIUM TYPE:
                                                                                                                                                                                                                                                                                                       COUNTRY:
                                                                                                                                                                                                                                                                                                                                       CITY: Boston
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GY: linear
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98.1%;
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             34,346
DFCG-152EX
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Pred. No. 2
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Sequence 523, Application US/60/21/8039

Sequence 523, Application:
Applicant: Beasley, Ellen
ITITLE OF INVENTION: ISOLATED HUMAN PROTEASE PROTEINS,
ITITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN PROT
ITITLE OF INVENTION: USES THEREOF
ITITLE OF INVENTION USES THEREOF
ITITLE OF INVENTION USES THEREOF
ITITLE OF INVENTION NUMBER: US/60/212,659
CURRENT APPLICATION NUMBER: US/60/212,659
CURRENT FILING DATE: 2000-06-19
NUMBER OF SEQ ID NOS: 879
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 523
LENGTH: 1078
TYPE: PRT
ORGANISM: HUMAN
US-60-212-659-523
                                                                                                                                                                                                                                                                    RESULT / US-60-212-659-523 . Application US/60212659 . Sequence 523, Application US/60212659
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Best Local S
Matches 365
                                              Query Match
Best Local Similarity
Matches 336; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 542-2290
TELEPAX: (617) 451-0313
TELEX: 940675
INFORMATION FOR SEQ ID NO: 2:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE CHARACTERISTICS:
LENGTH: 385 amino acids
  604
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Local Similarity 98.1%;
hes 365; Conservative
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TOPOLOGY: linear
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GKKSKRSMNDPY 372
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NCDVGYYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEETT 240
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                                                Conservative
                                                           89.0%;
97.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 2076; DB 8;
Pred. No. 2.6e-173;
                                                          Score 1883;
Pred. No. 7.
                                                Mismatches
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                                             DB 23;
7.8e-156;
hes 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 385;
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                                                                      1078;
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 US-60-230-435-1751
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Sequence 428, Application US/60207315
GENERAL INFORMATION:
APPLICANT: Beasley, Ellen
TITLE OF INVENTION: ISOLATED HUMAN PROTEASE
TITLE OF INVENTION: USES THEREOF
FILE REFERENCE: CL000601
CURRENT APPLICATION NUMBER: US/60/207,315
CURRENT FILING DATE: 2000-05-30
NUMBER OF SEQ ID NOS: 528
SOPTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 428
LENGTH: 1078
TYPE: PRT
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US-60-207-315-428
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Best Local S
Matches 335
                                                                   844
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hes 335; Conserv
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SFSMIKEGDYNPLFIPVAVMVTAFSGLAFIIWLARRLKKGKKSKR 366
                                                                                 LSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKKTICESSGIWSNPSPICQKLDK 321
                                                                                                                                                                                                                                                                  SFSMIKEGDYNPLFIPVAVMYTAFSGLAFIIWLARRLKKGKKSKR 366
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                                                                                                                                                   APELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEETTCGPFGNWSSPEPTCQVIQCEP
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                                                                                                                                   APELGIMDCTHPLGNFSFSSQCAFSCSEGTNLTGIEETTCGPFGNWSSPEPTCQVIQCEP
                                                                                                                                                                                                    WNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNYTCNCDVGYYGPQCQFVIQCEPLE 783
                                                                                                                                                                                                                     WNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNHTCNCDVGYYGPQCQLVIQCEPLE
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                                                                   LSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKKTICESSGIWSNPSPICQKLDK
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                                                                                                                                                                                                                                                                                                                                                                                                                    88.8%;
97.1%;
                                                                                                                                                                                                                                                                                                                                                                                                 Score 1879; DB 23;
Pred. No. 1.7e-155;
3; Mismatches 7;
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GENERAL INFORMATION:
APPLICANT: LASKY, LAURENCE A.
APPLICANT: STACHELL, SCOTT E.
APPLICANT: ROSEN, STEVEN D.
APPLICANT: SINGER, MARK S.
APPLICANT: YEDNOCK, TED A.
TITLE OF INVENTION: LYMPHOCYTE HOMING RECEPTORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CURRENT APPLICATION NUMBER: US/60/230,435
CURRENT FILING DATE: 2000-09-06
NUMBER OF SEQ ID NOS: 2991
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 1751
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Best Local Similarity 97.1
Matches 335; Conservative
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TITLE OF INVENTION: ISOLATED HUMI
TITLE OF INVENTION: NUCLEIC ACID
TITLE OF INVENTION: USES THEREOF
FILE REFERENCE: CL000768
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TYPE: PRT
             SOFTWARE: WinPatin (Genentech)
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/119,
                                                COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44 mb floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WinPatin (Genentech)
                                                                                                                                                                                                                                                  NUMBER OF SEQUENCES: 6
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FILING DATE:
                                                                                                                                            ZIP:
                                                                                                                                                           COUNTRY:
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                                                                                                                                            94080
                                                                                                                                                                                               ': 1 DNA Way
South San Francisco
                                                                                                                                                                              California
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                                                                                                                                                                                                                             Genentech, Inc.
   20-Jul-1998
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97.1%;
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               US/09/119,209
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PCT-US94-09395-4
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                                                                                                                Sequence 4, Application PC/TUS9409395 GENERAL INFORMATION:
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Best Local
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INFORMATION FOR SEQ ID NO:
                                                               APPLICANT: Board of Regents of the University of Oklahoma TITLE OF INVENTION: Expression Control Sequences of the P. NUMBER OF SEQUENCES: 17
                                                CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE CHARACTERISTICS:
LENGTH: 372 amino acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE/DOCKET NUMBER: PO
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650/225-5530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATTORNEY/AGENT INFORMATION:
NAME: Love, Richard B.
REGISTRATION NUMBER: 34,
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07/786149
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APPLICATION NUMBER: 08/
FILING DATE: 6-MAY-1993
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PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/5:
FILING DATE: 10-AUG-1995
STREET: 1100 Peachtree Str
                                                                                                                                                                                                                               361 GKKSKRSMNDPY 372
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LENGTH:
                                                                                                                                                                                                                                                                             TQCGASGNWSSPEPICQETNRSFSKIKEGDYNPLFIPVAVMVTAFSGLAFLIWLARRLKK 360
                                                                                                                                                                                                                                                                                            TICESSGIWSNPSPICQKLDKSFSMIKEGDYNPLFIPVAVMVTAFSGLAFIIWLARRLKK
                                                                                                                                                                                                               GKKSQERMDDPY 372
                                                                                                                                                                                                                                                                                                                                           CGASGNWSSPEPICQVVQCEPLEAPELGTMDCIHPLGNFSFQSKCAFNCSEGRELLGTAE
                                                                                                                                                                                                                                                                                                                                                          CGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKK 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MVFPWRCEGTYWGSRNILKLWVWTLLCCDFLIHHGTHCWTYHYSEKPMNWENARKFCKQN
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76.1%;
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                    Street,
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Pred. No. 4.9e-136;
2; Mismatches 57;
                    Suite
                    2800
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                                                                                                                                                                                                                                                                         Sequence 4, Application US/08449687B GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches 157;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATTORNEY/AGENT INFORMATION:
NAME: PABSE, PATURE L.
REGISTRATION NUMBER: 31,284
TELECOMMUNICATION INFORMATION:
TELEPHONE: (404)-815-6508
TELEPAX: (404)-815-6555
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TELEFAX: (404)-815-655
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                      APPLICANT: McEver, Rodger P.
APPLICANT: Pan, Junliang
TITLE OF INVENTION: Expression Control Sequences
TITLE OF INVENTION: P-Selectin Gene
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     COUNTRY: USA
ZIP: 30309-4530
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                   308 IWSNPSPICQ 317
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     188
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      128 CVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNHTCNCDVGYY 187
                                         STREET: 2800 One Atlantic Center STREET: 1201 West Peachtree Street CITY: Atlanta STATE: GA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICATION NUMBER: PCT/
FILING DATE: 19-AUG-1994
CLASSIFICATION:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        83
COUNTRY: USA
ZIP: 30309-3450
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Match 42.8%; Score 905; DB 1; Length 830; Local Similarity 50.6%; Pred. No. 3.8e-70;
                                                                                                                             ADDRESSEE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8 QSTQRDLWNIFKLWGWTMLCCDFLAHHGTYCWTYHYSEKPMNWQRARRFCRDNYTDLVAI 67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      QNKAEIEYLEXTLPFSRSYYWIGIRKIGGIWTWVGTNKSLTEEAENWGDGEPNNKKNKED 127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CVEIXIKSPSAPGKWNDEHCLKKKHALCYTASCQDMSCSKQGECLETIGNYTCSCYPGFY 190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GPECEYVRECGELELPQHVLMNCSHPLGNFSFNSQCSFHCTDGYQVNGPSKLECLASGIW
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GPQCQLVIQCEPLEAPELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEETTCGPFGNW 247
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              QNKNEIDYLNKVLPYYSSYYWIGIRKNNKTWTWVGTKKALTNEAENWADNEPNNKRNNED 130
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  QRFQRVVFGISQLLCFSALISELTNQKEVAAWTYHYSTKAYSWNISRKYCQNRYTDLVAI 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKKTICESSG 307
                                       G.
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APPLICANT: Beasley, Ellen
TITLE OF INVENTION: ISOLATED HUMAN PROTEASE I
TITLE OF INVENTION: NUCLEIC ACID MOLECULES EI
TITLE OF INVENTION: USES THEREOF
FILE REFERENCE: CL000601
CURRENT APPLICATION NUMBER: US/60/207,315
CURRENT FILING DATE: 2000-05-30
NUMBER OF SEQ ID NOS: 528
SOFTWARE: FRSTSEQ for Windows Version 4.0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TELEFAX: (404)873-879 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: UPPLICATION APPLICATION DATA:
PRIOR APPLICATION NUMBER: UPPLICATION NUMBER: UPPLICATION NUMBER: UPPLICATION OB-MAR-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATTORNEY AGENT INFORMATION:
ATTORNEY AGENT INFORMATION:
NAME: PADST, PATTE I.
REGISTRATION NUMBER: 31,284
TELECOMMUNICATION INFORMATION:
TELEPHONE: (404)873-8794
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/449,687E

FILING DATE: 24-MAY-1995

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/110,158
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LENGTH: 830 amino acids
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MEDIUM TYPE: Floppy disk
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                                                                                                                                                                                                                                                                                                                                                             311 VWTAPAPVCK 320
                                                                                                                                                                                                                                                                                                                                                                                                                                                     251 TNKPPQCLAAQCPPLKIPERGNMICLHSAKAFQHQSSCSFSCEEGFALVGPEVVQCTASG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  128 CVEIYIKRNKDAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNHTCNCDVGYY 187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          11 QRFQRVVFGISQLLCFSALISELTNQKEVAAWTYHYSTKAYSWNISRKYCQNRYTDLVAI 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TYPE: amino acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STRANDEDNESS: single
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GPQCQLVIQCEPLEAPELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEETTCGPFGNW 247
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKKTICESSG 307
                                                                                                                                                                                                                                             Application US/60207315
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08-MAR-1989
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                                                                                                                                                   ISOLATED HUMAN PROTEASE PROTEINS; NUCLEIC ACID MOLECULES ENCODING HUMAN PROTEASE PROTEINS,
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; LOCATION: (1)...(700)
; OTHER INFORMATION: Xaa = Any Amino Acid
US-60-207-315-467
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                                                                                                                                                                                                                         Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                      SOFTWARE: PatentIn Ver. 2.0 SEQ ID NO 19
                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Monia, Brett P.
APPLICANT: Xu, Xiaoxing S.
APPLICANT: Isis Pharmaceuticals, Inc.
TITLE OF INVENTION: METHODS OF MODULATING TUMOR NECROSIS FACTOR
TITLE OF INVENTION: alpha-INDUCED EXPRESSION OF CELL ADHESION MOLECULES
FILE REFERENCE: ISPH-0424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQ ID NO 467
LENGTH: 700
                                                                                                                                                                                                                                                                                                                                                                                                                          CURRENT APPLICATION NUMBER: PCT/US99/28965
CURRENT FILING DATE: 1999-12-08
EARLIER APPLICATION NUMBER: US 09/209,668
EARLIER FILING DATE: 1998-12-10
                                                                                                                                                                                                                                                                                                                                                                                                          NUMBER OF SEQ ID NOS: 25
                                                                                                                                                                                                                                                                                                               TYPE: PRT
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM: HUMAN FEATURE:
                                                                                                                                                                                                                                                                                                                                                     LENGTH: 610
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                      159
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                                                                                                                                                                                                        Local Similarity 52.0 ses 145; Conservative
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                                                       TWVGTNKSLTEEAENWGDGEPNNKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTA 158
SCQPWSCSGHGECVEIINNHTCNCDVGYYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFS 218
                                                                                                                               WSYNTSTEAMTYDEASAYCQQRYTHLVAIQNKEEIEYLNSILSYSPSYYWIGIRKVNNVW 81
                                                                                                                                                 WTYHYSEKPMNWQRARRECRDNYTDLVAIQNKAEIEYLEKTLPFSRSYYWIGIRKIGGIW 98
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FSSQCAFSCSEGTNLTGIEETTCGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLAS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SCODMSCSKQGECLETIGNYTCSCYPGFYGFECEYVRECGELELPOHYLMNCSHPLGNFS 213
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TWYGTKKALTNEAENWADNEPNNKRNNEDCVETYIKSPSAPGKWNDEHCLKKKHALCYTA 153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FSFTSACTFICSEGTELIGKKKTICESSGIWSNPSPICQ 317
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FNSQCSFHCTDGYQVNGPSKLECLASGIWTNKPPQCLAAQCPPLKIPERGNMTCLHSAKA 273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TWYGTIKSLTEEAENWGDGEPNIKKIKEDCVEIYIKRIKDAGKWIDDACHKLKAALCYTA 158
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                    40.7%; Score 862; DB 1; I 52.0%; Pred. No. 1.6e-66; ative 41; Mismatches 93;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            42.4%; Score 898; DB 23; 54.1%; Pred. No. 1.3e-69;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             41; Mismatches
                                                                                                                                                                                                                                        Length 610;
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TELEFAX: (415) 576-030 INFORMATION FOR SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE CHARACTERISTICS:
LENGTH: 610 amino acid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             COMPUTER READABLE FORM: MEDIUM TYPE: Floppy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TELEPHONE: (415) 576-0200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATTORNEY/AGENT INFORMATION:
NAME: KEZET, William B.
REGISTRATION UNMBER: 37,369
REFERENCE/DOCKET NUMBER: 16
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NUMBER OF SEQUENCES:
                                                                                  142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITLE OF INVENTION:
                           219 FSSQCAFSCSEGTNLTGIEETTCGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLAS
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                                                                                                                                                                                                                                              22 WSYNTSTEAMTYDEASAYCQQRYTHLVAIQNKEEIEYLNSILSYSPSYYMIGIRKVNNVW
                                                                                                                                                                                                                                                                     39 WIYHYSEKPMNWQRARRFCCRDNYTDLVAIQNKAEIEYLEKTLPFSRSYYWIGIRKIGGIW
                                                                                                                                                                                                                                                                                                                             7 Match 40.7%; Score 862; DB 10; Local Similarity 52.0%; Pred. No. 1.6e-66; nes 145; Conservative 41; Mismatches 93;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICATION NUMBER: US/08/657,753 FILING DATE: Not yet assigned
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CITY: San Francisco
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: amino acid
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                                                                                                                                                                 VWVGTQKPLTEEAKNWAPGEPNNRQKDEDCVEIYIKREKDVGMWNDERCSKKKLALCYTA 141
                                                                                                                                                                                      TWVGTNKSLTEEAENWGDGEPNNKKNKEDCVETYIKRNKDAGKWNDDACHKLKAALCYTA 158
                                                                                  ACTINTSCSGHGECVETINNYTCKCDPGFSGLKCEQIVNCTALESPEHGSLVCSHPLGNFS
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Hope, Michael J
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2: /cgn1_7/ptodata/2/paa/US06_NEW_COMB.pep:*

3: /cgn1_7/ptodata/2/paa/US08_NEW_COMB.pep:*

4: /cgn1_7/ptodata/2/paa/US08_NEW_COMB.pep:*

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PCT-US01-08656-9868	US-09-764-898-276	US-09-764-881-157	US-09-764-875-1154	US-09-764-853-816	US-09-764-893-125	US-09-760-475-2121	US-09-760-443-870 ·	US-09-918-715-238	PCT-US01-08631-53205	US-09-194-612A-1	US-09-545-551A-14	US-09-918-715-305	PCT-US01-08631-51085	US-09-764-898-204	US-09-764-881-99	US-09-764-875-873	US-09-764-853-634
Sequence	Sequence	Sequence	Sequence		Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence	Sequence		Sequence	Sequence	Sequence	Sequence
9868, Ap	276, App	157, App	1154, Ap	816, App	125, App	2121, Ap		238, App	53205, A	1, Appli	14, Appl	305, App	51085, A	204, App	99, Appl	873, App	634, App

ALIGNMENTS

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Sequence 2123, Application US/09760475

GENERAL INFORMATION:
APPLICANT: ROSEN et al..
ITITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies
FILE REFERENCE: PTZ49
CURRENT APPLICATION NUMBER: US/09/760,475
CURRENT FILING DATE: 2001-01-16
Prior application data removed - consult PALM or file wrapper NUMBER OF SEQ ID NOS: 4122
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 2123
LENGTH: 382
TYPE: PRT
ORGANISM: Homo sapiens
US-09-760-475-2123
                                                                                                                                                                          CGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKK 300
                                                                                                                                   NCDVGYYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFSFSSQCAFSCSEGTNLTGIEETT
                                                            CGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKK
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99.2%;
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Pred. No. 1.6e-169;
1; Mismatches 2;
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hes 2;
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US-09-758-449-1158
; Sequence 1158, Application US/09758449
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, an:
; FILE REFERENCE: PMO26
; CURRENT APPLICATION NUMBER: US/09/758,449
; CURRENT FILING DATE: 2001-01-11
; PRIOR APPLICATION NUMBER: 60/179,065
; PRIOR APPLICATION NUMBER: 60/180,628
; PRIOR FILING DATE: 2000-02-04
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PCT-US01-26675-3
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GENERAL INFORMATION:
APPLICANT: Genaissance Pharmaceuticals,
APPLICANT: Anastasio, Alison E
APPLICANT: Biegler<sup>14</sup>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQ ID NO 3
LENGTH: 372
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Best Local Similarity 98.9%;
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CURRENT FILING DATE: 2001-08-27
PRIOR APPLICATION NUMBER: 60/228,262
PRIOR FILING DATE: 2000-08-25
RIOR FILING DATE: 2000-08-25
NUMBER OF SEQ ID NOS: 101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Kliem, Stefanie E
APPLICANT: Koshy, Beena
APPLICANT: Kumar, Anant Madan
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE OF INVENTION: HAPLOTYPES OF THE SELL GENEFILE REFERENCE: SELL MWH1116-PCT
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Pred. No. 3.5e-169;
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                                                                                                                           US-09-760-443-1328
                                                                                                                                                                                                                                                                                                                                                                                             US-09-760-443-1328
                                                                                                                                                                                                           SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1328
LENGTH: 341
TYPE: PRT
                                                                                                                                                                                                                                                                                                                                                   GENERAL INFORMATION:
APPLICANT: Rosen et al.
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SEQ ID NO 1158
LENGTH: 341
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Best Local S
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Best Local
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                                                                                                                                                                                                                                                                  Prior application data removed - NUMBER OF SEQ ID NOS: 2164
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ORGANISM: Homo
FEATURE:
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                                                                                                                                      NAME/KEY: SITE LOCATION: (215)
OTHER INFORMATION:
                                                                                                                                                                                  FEATURE:
                                                                                                                                                                                               ORGANISM: Homo
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TICESSGIWSNPSPICQ 317
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                                                                  Similarity
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98.7%;
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98.7%;
                                                       Score 1807; DB 5;
Pred. No. 2.9e-145;
1; Mismatches 3;
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US-09-760-475-3252
; Sequence 3252, Application US/09760475
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins, and Ant
; FILE REFERENCE: PTZ49
; CURRENT APPLICATION NUMBER: US/09/760,475
; CURRENT FILING DATE: 2001-01-16
; Prior application data removed - consult PALM or fil
; NUMBER OF SEQ ID NOS: 4122
; SOFTWARE: Patentin Ver. 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; Prior application data removed - refer to NUMBER OF SEQ ID NOS: 2164 ; SOFTWARE: PatentIn Ver. 2.0 ; SEQ ID NO 1437 LENGTH: 184 TYPE: PRT : ORGANISM: Homo sapiens US-09-760-443-1437
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US-09-760-443-1437
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GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins, and
FILE REFERENCE: PIEL2
CURRENT APPLICATION NUMBER: US/09/760,443
CURRENT FILING DATE: 2001-01-16
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Matches 183;
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                                                                                                                                                                                                                                                                                                                        SPEPTCQVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKKTICESSGI 308
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99.5%;
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Pred. No. 3.5e-77;
0; Mismatches 1
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                              file wrapper
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APPLICANT: Murray, Richard
APPLICANT: Glynne, Richard
APPLICANT: Glynne, Richard
APPLICANT: EOS Blotechnology, Inc.
APPLICANT: EOS Blotechnology, Inc.
TITLE OF INVENTION: Novel Methods of Diagnosis of Angiogenesis,
TITLE OF INVENTION: Compositions and Methods of Screening for Angiogenesis
TITLE OF INVENTION: Modilators
FILE REFERENCE: 018501-000710US
CURRENT APPLICATION NUMBER: US/09/784,356
CURRENT FILING DATE: 2001-02-14
PRIOR APPLICATION NUMBER: US 60/148,425
PRIOR FILING DATE: 1999-08-11
PRIOR APPLICATION NUMBER: US 09/637,977
PRIOR FILING DATE: 2000-08-11
NUMBER OF SEQ ID NOS: 135
SOFTMARE: FastSEQ for Windows Version 3.0
TYPE: PRI
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                                                                                                                                                                                                                                                                                             Query Match 40.7%; Score 862; DB 5; Best Local Similarity 52.0%; Pred. No. 5.9e-65; Matches 145; Conservative 41; Mismatches 93;
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LENGTH: 184
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                                                                                                                                    TWVGTNKSLTEEAENWGDGEPNNKKNKEDCVEIYIKRNKDAGKWNDDACHKLKAALCYTA 158
                                                                                                                                                                                                                WSYNTSTEAMTYDEASAYCQQRYTHLVAIQNKEEIEYLNSILSYSPSYYWIGIRKVNNVW 81
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ESSQCAFSCSEGTNLTGIEETTCGPFGNWSSPEPTCQVIQCEPLSAPDLGIMNCSHPLAS
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                                                         ACTINTSCSGHGECVETINNYTCKCDPGFSGLKCEQIVNCTALESPEHGSLVCSHPLGNFS
                                                                              SCQPWSCSGHGECVEIINNHTCNCDVGYYGPQCQLVIQCEPLEAPELGTMDCTHPFGNFS 218
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99.58;
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Pred. No. 3.5e-77;
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US-09-764-902-1145; Sequence 1145, Application US/09764902
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; LOCATION: (190)
; OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids
US-09-760-498-916
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Best Local Similarity 61.8
81; Conservative
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GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins,
FILE REFERENCE: PC017
                                                                                                                                                                                          SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 1145
LENGTH: 355
TYPE: PRT
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SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 916
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                                                FEATURE:
NAME/KEY: SITE
LOCATION: (113)
OTHER INFORMATION: >
NAME/KEY: SITE
LOCATION: (149)
OTHER INFORMATION: >
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CURRENT FILING DATE: 2001-01-17
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CURRENT FILING DATE: 2001-01-16
                                                                                                                                                                                                                                                               Prior application data removed .
NUMBER OF SEQ ID NOS: 2318
                                                                                                                                                                                                                                                                                                                                       TITLE OF INVENTION: Nucleic Acids, Proteins, FILE REFERENCE: PTZ13
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ORGANISM: Homo sapiens
 OTHER INFORMATION:
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                  NAME/KEY: SITE
LOCATION: (150
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Local Similarity hes 61; Conserv

189 PQCQLVIQCEPLEAPELGTMDCTH-PFGNFSFSSQCAFSCSEGTNLTGIEETTCGPFGNW 247

Mismatches

70;

Indels

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; OTHER INFORMATION: US-09-760-475-2126
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NUMBER OF SEQ ID NOS: 4122
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2126
LENGTH: 208
TYPE: PRT
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Best Local Similarity
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OTHER INFORMATION: NAME/KEY: SITE
LOCATION: (193)
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CURRENT FILING DATE: 2001-01-16
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TITLE OF INVENTION: Nucleic Acids, Proteins,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILE REFERENCE: PTZ49
                                                                                              OTHER INFORMATION:
NAME/KEY: SITE
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LOCATION: (192
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NAME/KEY: SITE
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NAME/KEY: SITE
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OTHER INFORMATION:
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Pred. No. 2.9
Score 274.5; DB Pred. No. 9e-16;
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RESULT 12
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GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: Nucleic Acids, Proteins,
FILE REFERENCE: PJZ12
CURRENT APPLICATION NUMBER: US/09/760,443
CURRENT FILING DATE: 2001-01-16
                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity
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SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 1321
THEORY II. 207
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LOCATION: (191)
OTHER INFORMATION: Xaa
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OTHER INFORMATION:
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Pred. No. 2.1e-15;
6; Mismatches 64
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Prior application data removed - cc
NUMBER OF SEQ ID NOS: 4122
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 3255
LENGTH: 207
TYPE: PRT
ORGANISM: Homo sapiens
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US-09-760-475-3255
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LENGTH: 207
TYPE: PRT
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Best Local Similarity
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OTHER INFORMATION: NAME/KEY: SITE LOCATION: (198)
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TITLE OF INVENTION: Nucleic Acids, Proteins,
FILE REFERENCE: PCO17
CURRENT APPLICATION NUMBER: US/09/760,498
CURRENT FILING DATE: 2001-01-16
                                                                                                                                                                       CURRENT APPLICATION NUMBER: US/09/760,475
CURRENT FILING DATE: 2001-01-16
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LOCATION: (185)
LOCATION: (151)
                   NAME/KEY: SITE
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LOCATION: (151)
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Pred. No. 2.1e-15;
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; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 615
; LENGTH: 309
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-764-875-615
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LOCATION: (198)
OTHER INFORMATION: Xaa equals any of the naturally occurring L-amino acids US-09-760-475-3255
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Best Local S
Matches 58
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Best Local Similarity
Matches 60; Conserv
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CURRENT FILING DATE: 2001-01-17
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TITLE OF INVENTION: Nucleic Acids, Proteins,
FILE REFERENCE: PJZ02
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LOCATION: (194)
OTHER INFORMATION: Xaa
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366 RSMN 369
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                                                                    ICQKLDKSFSMIKEGDYNPLFI------PVAVMVTAFSGLAFIIWLARRLKKGKKSK 365
                                                                                                                                                                          VQCPALITIPGQGTMYCRHHPGTFGENTTCYFGCNAGFTLIGDSTLSCRPSGQWTAVTPAC 178
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12.8%; Score 270; DB 5;
31.6%; Pred. No. 2.1e-15;
tive 26; Mismatches 64
                                                                                                                                                                                                                                                                   12.6%; Score 266; DB 5; 31.5%; Pred. No. 7.6e-15;
                                   -GPLTIQEALTYFGGAVASTIGLIMGGTLLALLRKRFRQKDDGK 285
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                                                                                                                                                                                                                                                  23;
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                                                                                                                                                                                                                                                  81;
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                                                                                                                                                                                                                                                                                    Length 309;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-09-911-842-2; Sequence 2, Application US/09911842; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           밁
Search completed: October 13, 2001, 03:00:39 Job time: 392 sec
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SEQ ID NO 2
LENCTH: 3571
TYPE: PRT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match 11.6%;
Best Local Similarity 28.9%;
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CURRENT FILING DATE: 2001-07-24
PRIOR APPLICATION NUMBER: US 60/222,438
PRIOR FILING DATE: 2000-08-01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Welcher, Amdrew A.
APPLICANT: Elliott, Gary S.
TITLE OF INVENTION: C3B/C4B COMPLEMENT RECEPTOR-LIKE MOLECULES AND USES THEREOF FILE REFERENCE: 01017/37592
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQ ID NOS:
                                                                                                                                                                                                    1843 KAVSCGKPAIPENG---CIEELA-FTFGSKVTYRCNKGYTLAGDKESSCLANSSWSHSPP 1898
                                                                                                                                                                                                                                                                                        1788 KCKAPGNPENG----HSSGEIYTVGAEVTFSCQEGYQLMGVTKITCLESGEWNHLIPYC
                                                                                                                                                                                                                                                                                                                                                                                1732 DNGSWNGVSPSCLDVDECAVGS----DCSEHASCLNVDGSYICSCVPPYTGDGKNCAEPI 1787
                                                                                                                                                                                                                                                                                                                                      196
                                                                                                                                                                                                                                                                                                                                                                                                                          138 DAGKWNDDACHKLKAALCYTASCQPWSCSGHGECVEIINNHTCNCDVGYY--GPQCQLVI 195
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           286 CPLN 289
                                                                                                                                                                                                                         QVIQCEPLSAPDLGIMNCSHPLASFSFTSACTFICSEGTELIGKKKTICESSGIWSNPSP 314 : : : | : | : | : | : | : | : | : |
                                                                                                                                                                                                                                                                                                                    QCEPLEAPELGTMDCTHPFGN-FSFSSQCAFSCSEGTNLTGIEETTCGPFGNWSSPEPTC 254
                                                                                                                VCEPVKCSSPENINNGKY----
                                                                                                                                                       ICQKLD-KSFSMIKEGDYNPLFIPVAVMVTAFSGLAFI 351
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       63;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 246.5; DB 5;
Pred. No. 6.4e-12;
3; Mismatches 93;
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